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**FIGURE 1934**

GGCCGGAGCCGTGCGAGTTCTCTACCCTGCTTCGCGAGCGGGCGAGAGAACGCGAGTCCCAGGATCCCCGGCACC  
CAGTTCTCTTCCACTGCATGATTTTTCCTTTGACCGGGTATTCCCACCAGGAAGTGGACAGGATGAAGTGTGTTGA  
AGAGATTGCCATGCTTGTCAGTCAGCCCTGGATGGCTATCCAGTATGCATCTTTGCCTATGGCCAGACAGGCAG  
TGGCAAGACCTTCACAATGGAGGGTGGGCCTGGGGGAGACCCCCAGTTGGAGGGGCTGATCCCTCGGGCCCTGCG  
GCACCTCTTCTCTGTGGCTCAGGAGCTGAGTGGTCAGGGCTGGACCTACAGCTTTGTAGCAAGCTACGTAGAGAT  
CTACAATGAGACTGTCCGGGACCTGCTGGCCACTGGAACCCGGAAGGGTCAAGGGGGCGAGTGTGAGATTGCGCG  
TGCAGGGCCAGGGAGTGAGGAGCTCACTGTCACCAATGCTCGATATGTCCCTGTCTCCTGTGAGAAAGAAGTGGA  
CGCCCTGCTTCATCTGGCCCGCCAGAATCGGGCTGTGGCCCGCACAGCCCAGAATGAACGGTCATCACGCAGCCA  
CAGTGTATTCCAGCTACAGATTTCTGGGGAGCACTCCAGCCGAGGCCTGCAGTGTGGGGCCCCCCTCAGTCTTGT  
GGACCTGGCCGGGAGTGAGCGACTTGACCCCGGCTTAGCCCTCGGCC

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**FIGURE 1935**

MDPQRSPLLEVKGNIELKRPLIKAPSQLPLSGSRLKRRPDQMEDGLEPEKKRTRGLGATTKITTSHPRVPSLTTV  
PQTQGQTAAQKVSKKTGPRCSTAIATGLKNQKPVPAVPVQKSGTSGVPPMAGGKKPSKRPAWDLKGQLCDLNAEL  
KRCRERTQTLDQENQQQLQDQLRDAQQQVKALGTERTTLEGHAKVQAQAEQGGQELKNLRACVLELEERLSTQEG  
LVQELQKKQVELQEERRGLMSQLEEKERRLOTSEAALSSSQAEVASLRQETVAQAALLTEREERLHGLEMERRRL  
HNQLQELKGNIRVFCRVREVLPGEP T PPPG L L L F P S G P G G P S D P P T R L S L S R S D E R R G T L S G A P A P P T R H D F S F D  
RVFPPGSGQDEVFEEIAMLVQSALDGYPVCIFAYGQTGSGKTFTMEGGPGGDPQLEGLIPRALRHLFSVAQELSG  
QGWTYSFVASYVEIYNETVRDLLATGTRKGQGECEIRRAGPGSEELTVTNARYVPVSCEKEVDALLHLARQNRA  
VARTAQNERSRSRSHSVFQLQISGEHSSRGLQCGAPLSLVDLAGSERLDPGLALGPGERERLRETQAINSSLSTLG  
LVIMALSNKESHVPYRNSKLTYLQNSLGGSAKMLMFVNISPLEENVSESLNSLRFASKVNQC VIGTAQANRK



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**FIGURE 1936**

CTCTCGGCTTTCGGCTCGGAGGAGGCCAAGGTGCAACTTTCTTCGGTCATCCTGAATCTGGGTTCATCCGACACC  
AGCTGCCTCCACCATGCCACCGAAGTTCGACCCCAACGAGATCAAGGTCGTATACCTGAGGTGCACCAGAGGTGA  
AGTCGGTGCCACTTCTGCCCTGGCCCCCAAGATCGGCCCCCTGGGTCTGTCTCCAAAAAAGGTTGGTGATGACAT  
TGCCAAGGCAACGGGTGACTGGAAGGGCCTGAGGATTACAGTGAACTGACCATTGAGAACAGACAGGCCCAGAT  
TGAGGTGGTGCCCTTCTGCCTCTGCCCCGATCATCAAAGCCCTCAAGAAACCACCAAGAGACAGAAAGAAACAGAA  
AAACATTAAACACAATGGGAATATCACTTTTGATGAGATCGTCAACATTGCTCGACAGATGCGGCACCGATCCTT  
AGCCAGAGAACTCTCTGGAACCATTAAGAGATTCCGGGGACTGCCAGTCTATGGGCTGTAATGTTGATGGCCA  
CCACCCTCATGACATCATAGATGACATCAACAGTGGTGCTGTGGAATGCCAGCTAGTTAAGCACAAAGGAAAAT  
ATTTCAATAAAGGATCATTTGACAACCTGGT

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**FIGURE 1937**

GTTCGGCGGGGGCGGCCGAGGGGGAAGAGTGTGTGTCTGCGGGAGAAAGAGGAGAATCACCCAAGCGGCCTCAG  
AAGTCCCAGGGAGTGGAGGCCCTGCCATGGAGCCGTGTGGTGTATGTGTGGTAACACCATGTCTGTGCCCCCTGC  
TCAACGATGCTGCCACCGTGTCTGGAGCTGAGCGGGAAACGGCCGTGGTTATTTTTTTTACATGGACTTGGAGACA  
CAGGGCACAGCTGGGCTGACGCCCTCTCCACCATTTCGGCTCCCTCACGTCAAGTACATCTGTTCCCATGAGCCTA  
GGATCCCTGTGACCCTCAACATGAAGATGGTGTATGCCCTCCTGGTTTGACCTGATGGGGCTGAGTCCAGATGCCC  
CAGAGGACGAGGCTGGCATCAAGAAGGCAGCAGAGAAACATCAAGGCCTTGATTGAGCATGAAATGAAGAACGGGA  
TCCCTGCCAATCAAATCATCCTGGGAGGCTTTTACAGGGCCGGGCCCTGTCCCTCTACATGGCCCTCACCTGCC  
CCCACCCTCTGGCTGGCATCCTGGCTTTGAGCTGTGCGCCCTCTGCACCGGGCCTTCCCCCAGGCAGCTAATG  
GCAGTGCCAAGGACCTGGCCATCCTCCAGTGCCATGGGGAGCTGGACCCCATGGTGCCCGTACGGTTTGGGGCCC  
TGATGGCTGAGAAGCTCCGGTCTGTTGTACACCTGCCAGGGTCCAGTTCCAGACATACCTGGGTGTTCATGCACA  
GCTCCTGTCTCAGGAGATGGCAGCTGTGAAGGAATTTCTTGAGAAGCTGCTGCCTCCTGTCTAACTAGTCGCTG  
GCCCCAGTGCACTACCCAGCTCATGGGGGACTCAGCAAGTAAGCATGGCACCATCTTGGGTCTGAGCTGGTCTGA  
GCCCCCTGTCCCCACCCTTCCCTGACCTGTCTTTTTCCACAGGCCTCTAGGGGCAGGTGGCAAGGCCTGGCTGGGC  
CTTCTTCTTGGCCTCAGCCACCTGGCTCTGTCTGCAGTAGGGGCAGGCTGCTTTCTTATCCCATTTCCCTGGAG  
GCGGGCCCCCCTGGCAGCAGTATTGGAGGGGCTACAGGCAGCTGGAGAAAGAGGCCAGCCACTGACCCACTCAC  
TCAGGACCTCACTCACTAGCCCCACTTTGGGCCCCCTCCTGTAACTTAGGGTTTGGCCCATGGGGCCCTCCCAG  
GCCCCCTGCCCCAACTGATTCTGCCAGATAATCTTGTGTCTCCTGCCTCCACTCAGCTGCTTCTCAGTCATGAAC  
GTGGCCATGGCCCCGGGGGTCCCCCTTGCTGCTGTGGGCTCCCTGTCCCTGGGCAGGAGTGCTGGTGAGGAGGTGG  
AGCCTTTTGGAGGGGGGCTTCCCTCAGCTGTTTTCCACACTGGGGGGCTGGGCCCTGCCTCCCCGTTACCCTCC  
TTCCCTGCAGGCCTGGAGCCTGTAGGGCTGGACTGAGGTTTCAGGTCTCCCCCAGCTGTCTCACCCCCACTTTGT  
CCCCACTCTAGAGCAGGGAGGCAGTGGGGGAGGAGTTGTGTCTTGTCTTCTGTCTCCATGTGGTTTTTGGGTGTT  
TTTCTTCTTGTGTCTTGGATTCTGATAAAATTAAAGAAATTGCTTCCTC

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**FIGURE 1938**

GTGTGTCTGCGGGAGAAAGAGGAGAATCACCCAAGCGGCCTCAGAAGTCCCAGGGAGTGGAGGCCCTGCCATGG  
AGCCGTGTGGTGTATGTGTGGTAACACCATGTCTGTGCCCCTGCTCAACGATGCTGCCACCGTGTCTGGAGCTGA  
GCGGGAAACGGCCGTGGTTATTTTTTTTACATGGACTTGGAGACACAGGGCACAGCTGGGCTGACGCCCTCTCCAC  
CATTCGGCTCCCTCACGTCAAGTACATCTGTTCCCATGAGCCTAGGATCCCTGTGACCCTCAACATGAAGATGGT  
GATGCCCTCCTGTCAAGGCCTTGATTGAGCATGAAATGAAGAACGGGATCCCTGCCAATCAAATCATCCTGGGAG  
GCTTTTCACAGGGCCGGGCCCTGTCCCTCTACATGGCCCTCACCTGCCCCCACCCTCTGGCTGGCATCCTGGCTT  
TGAGCTGCTGGCCGCCTCTGCACCGGGCCTTCCCCCAGGCAGCTAATGGCAGTGCCAAGGACCTGGCCATCCTCC  
AGTGCCATGGGGAGCTGGACCCCATGGTGCCCGTACGGTTTGGGGCCCTGATGGCTGAGAAGCTCCGGTCTGTTG  
TCACACCTGCCAGGGTCCAGTTCAGACATACTGGGTGTCATGCACAGCTCCTGTCCTCAGGAGATGGCAGCTG  
TGAAGGAATTTCTTGAGAAGCTGCTGCCTCCTGTCTAACTAGTCGCTGGCCCCAGTGCAGTACCCCAGCTCATGG  
GGGACTCAGCAAGTAAGCATGGCACCATCTTGGGTCTGAGCTGGTCGAGCCCCTGTCCCCACCCTTCCTGACCTG  
TCCTTTTCCCACAGGCCTCTAGGGGCAGGTG

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**FIGURE 1939**

GAAAGAGGAGAATCACCCAAGCGGCCTCAGAAGTCCCAGGGAGTGGAGGCCCTGCCATGGAGCCGTGTGGTGTA  
TGTGTGGTAACACCATGTCTGTGCCCCTGCTCAACGATGCTGCCACCGTGTCTGGAGCTGAGCGGGAACGGCCG  
TGGTTATTTTTTTACATGGACTTGGAGACACAGGGCACAGCTGGGCTGACGCCCTCTCCACCATTGGGCTCCCTC  
ACGTCAAGTACATCTGTTCCCATGAGCCTAGGATCCCTGTGACCCTCAACATGAAGATGGTGATGCCCTCCTGGT  
TTGACCTGATGGGGCTGAGTCCAGATGCCCCAGAGGACGAGGCTGGCATCAAGAAGGCAGCAGAGAACATCAAGG  
CCTTGATTGAGCATGAAATGAAGAACGGGATCCCTGCCAATCAAATCATCCTGGGAGGCTTTTCACAGGGCCGGG  
CCCTGTCCCTCTACATGGCCCTCACCTGCCCCACCCTCTGGCTGGCATCCTGGCTTTGAGCTGCTGGCCGCCTC  
TGCACCGGGCCTTCCCCAGGGTCCAGTTCCAGACATACCTGGGTGTCATGCACAGCTCCTGTCCTCAGGAGATG  
GCAGCTGTGAAGGAATTTCTTGAGAAGCTGCTGCCTCCTGTCTAACTAGTCGCTGGCCCCAGTGCAGTACCCAG  
CTCATGGGGGACTCAGCAAGTAAGCATGGCACCATCTTGGGTCTGAGCTGGTCGAGCCCCTGTCCCCACCCTTCC  
TGACCTGTCCTTTTCCCACAGGCCTCTAGGGGCAGGTGGCAAGGCCTGGCTGGGCCTTCCTTCCTGGCCTCAGCC  
ACCTGGCTCTGTCTGCAGTAGGGGCAGGCTG

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**FIGURE 1940**

GTTATTTTTTTTACATGGACTTGGAGACACAGGGCACAGCTGGGCTGACGCCCTCTCCACCATTCGGCTCCCTCAC  
GTCAAGTACATCTGTTCCCATGAGCCTAGGATCCCTGTGACCCTCAACATGAAGATGGTGATGCCCTCCTGGTTT  
GACCTGATGGGGCTGAGTCCAGATGCCCCAGAGGACGAGGCTGGCATCAAGAAGGCAGCAGAGAACATCAAGGCC  
TTGATTGAGCATGAAATGAAGAACGGGATCCCTGCCAATCAAATCATCCTGGGAGGCTTTTCACAGGGCCGGGCC  
CTGTCCCTCTACATGGCCCTCACCTGCCCCCAGCTGTCTCACCCCCACTTTGTCCCCACTCTAGAGCAGGGAGGC  
AGTGGGGGAGGAGTTGTGTCTTGTCTTCTGTCTCCATGTGGTTTTTTGGGTGTTTTTCTTCTTGTGTCCTGGATT  
TGATAAAATTAAAGAAATTGCTTCCTC

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**FIGURE 1941**

ACATGAAGATGGTGATGCCCTCCTGGTTTGACCTGATGGGGCTGAGTCCAGATGCCCCAGAGGACGAGGCTGGCA  
TCAAGAAGGCAGCAGAGAACATCAAGGCCTTGATTGAGCATGAAATGAAGAACGGGATCCCTGCCAATCAAATCA  
TCCTGGGAGGCTTTTACAGGGCCGGGCCCCTGTCCCTCTACATGGCCCTCACCTGCCCCCACCCTCTGGCTGGCA  
TCCTGGCTTTGAGCTGCTGGCCGCCTCTGCACCGGGCCTTCCCCCAGGCAGCTAATGGCAGTGCCAAGGACCTGG  
CCATCCTCCAGTGCCATGGGGAGCTGGACCCCATGGTGCCCGTACGGTTTGGGGCCCTGATGGCTGAGAAGCTCC  
GGTCTGTTGTCACACCTGCCAGGGTCCAGTTCCAGACATACCTGGGTGTCATGCACAGCTCCTGTCCTCAGGAGA  
TGGCAGCTGTGAAGGAATTTCTTGAGAAGCTGCTGCCTCCTGTCTAACTAGTCGCTGGCCCCAGTGCACTACCCC  
AGCTCATGGGGGACTCAGCAAGTAAGCATGGCACCATCTTGGGTCTGAGCTGGTCGAGCCCCCTGTCCCCACCCTT  
CCTGACCTGTCCTTTTCCACAGGCCTCTAGGGGCAGGTGGCAAGGCCTGGCTGGGCCTTCCTTCCTGGCCTCAG  
CCACCTGCCTCCACTCAGCTGCTTCTCAGTCATGAACGTGGCCATGGCCCCGGGGGTCCCCTTGCTGCTGTGGGC  
TCCCTGTCCCTGGGCAGGAGTGCTGGTGAGGAGGTGGAGCCTTTTGAGGGGGGCCTTCCTCAGCTGTTTCCCCA  
CACTGGGGGGCTGGGCCCTGCCTCCCCGTTACCCTCCTTCCCTGCAGGCCTGGAGCCTGTAGGGCTGGACTGAGG  
TTCAGGTCTCCCCCAGCTGTCTCACCCCCACTTTGTCCCCACTCTAGAGCAGGGAGGCAGTGGGGGAGGAGTTG  
TGCTGTGCTTCTGTCTCCATGTGGTTTTTGGGTGTTTTCTTCTTGTGTCCTGGATTCTGATAAAATTAAAGAA  
ATTGCTTCCTC

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**FIGURE 1942**

CGGCACGAGGCGGTGGGAGTGGGAAGGAAGGCGGAGGGAACCATGCGAGGTTCTGAGAATTGCGGCGAGGGTTCG  
CTCGAGAGACGGTTTCTGAGCAGGAATTCTGAAATCCCCACCACTTCCTCCCTCCGGGGGATTGATCCCCCTATG

GCCACCGCTAACAGCATCATCGTGCTGGATGATGATGACGAAGATGAAGCAGCTGCTCAGCCAGGGCCCTCCAC  
CCACTCCCCAATGCGGCCTCACCTGGGGCAGAAGCCCCCTAGCTCCTCTGAGCCTCATGGGGCCAGAGGAAGCAGT  
AGTTCGGGCGGCAAGAAATGCTACAAGCTGGAGAATGAGAAGCTGTTTGAAGAGTTTCTTGAACCTTTGTAAGATG  
CAGACAGCAGACCACCCTGAGGTGGTCCCATTTCCTCTATAACCGGCAGCAACGTGCCCACTCTCTGTTTTTGGCC  
TCGGCGGAGTTCTGCAACATCCTCTCTAGGGTCCTGTCTCGGGCCCGGAGCCGGCCAGCCAAGCTCTATGTCTAC  
ATCAATGAGCTCTGCACTGTTCTCAAGGCCCCACTCAGCCAAAAGAAAGCTGAACCTGGCCCCCTGCCGCCACCACC  
TCCAATGAGCCCTCTGGGAATAACCCTCCACACACCTCTCCTTGGACCCACAAATGCTGAAAACACTGCCTCT  
CAGTCTCCAAGGACCCGTGGTTCCCGGCGGCAGATCCAGCGTTTGGAGCAGCTGCTGGCGCTCTATGTGGCAGAG  
ATCCGGCGGCTGCAGGAAAAGGAGTTGGATCTCTCAGAATTGGATGACCCAGACTCCGCATACCTGCAGGAGGCA  
CGGTTGAAGCGTAAGCTGATCCGCTCTTTGGGCGACTATGTGAGCTGAAAGACTGCTCTTCACTGACCGGCCGT  
GTCATAGAGCAGCGCATCCCCCTACCGTGGCACCCGCTACCCAGAGGTTAACAGGCGCATTGAGCGGCTCATCAAC  
AAGCCAGGGCCTGATACCTTCCCTGACTATGGGGATGTGCTTCGGGCTGTAGAGAAGGCAGCTGCCCGACACAGC  
CTTGGCCTCCCCCGACAGCAGCTCCAGCTCATGGCTCAGGATGCCTTCCGAGATGTGGGCATCAGGTTACAGGAG  
CGACGTCACCTCGATCTCATCTACAACCTTTGGCTGCCACCTCACAGATGACTATAGGCCAGGCGTTGACCCTGCA  
CTATCAGATCCTGTGTTGGCCCGGCGCCTTCGGGAAAACCGGAGTTTGGCCATGAGTCGGCTGGATGAGGTCATC  
TCCAAATACGCAATGTTGCAAGACAAAAGTGAGGAGGGCGAGAGAAAAAGAGAAGAGCTCGGCTCCAAGGCACC  
TCTTCCCACTCTGCAGACACCCCCGAAGCCTCCTTGGATTCTGGTGAGGGCCCTAGTGGAATGGCATCCCAGGGG  
TGCCCTTCTGCCTCCAGAGCTGAGACAGATGACGAAGACGATGAGGAGAGTGATGAGGAAGAGGAGGAGGAGGAG  
GAAGAAGAAGAGGAGGAGGAGGCCACAGATTCTGAAGAGGAGGAGGATCTGGAACAGATGCAGGAGGGTCAGGAGGAT  
GATGAAGAGGAGGAGCAAGAGGAAGAAGCAGCAGCAGGTAAGATGGAGACAAGAGCCCCATGTCTCACTACAG  
ATCTCCAATGAAAAGAACCTGGAACCTGGCAAAACAGATCAGCAGATCTTCAGGGGAGCAGCAAAACAAAGGACGC  
ATAGTGTCACCATCGTTACTGTGAGAAGAACCCTGGCCCCCTCCAGCATAGATGCTGAAAGCAATGGAGAACAG  
CCTGAGGAGCTGACCCTGGAGGAAGAAAGCCCTGTGTCTCAGCTCTTTGAGCTAGAGATTGAAGCTTTGCCCCCTG  
GATACCCCTTCTCTGTGGAGACGGACATTTCTCTTCCAGGAAGCAATCAGAGGAGCCCTTCACCACTGTCTTA  
GAGAATGGAGCAGGCATGGTCTCTTCTACTTCTTCAATGGAGGCGTCTCTCCTCACAACCTGGGGAGATTCTGGT  
CCCCCTGCAAAAAATCTCGGAAGGAGAAGAAGCAACAGGATCAGGGCCATTAGGAAACAGCTATGTGGAAAGG  
CAAAGGTCAGTGATGAGAAGAATGGGAAAAAGATATGTACCTTGCCAGCCACCTTCCCCCTTGGCTTCCCTG  
GCCCCAGTTGCTGATTCTTCCACGAGGGTGGACTCTCCAGCCATGGCCTGGTGACCAGCTCCCTCTGCATCCCT  
TCTCCAGCCCGGCTGTCCAAACCCCCATTACAGCCTCCTCGGCCTGGTACTTGCAAGACAAGTGTGGCCACA  
CAATGCGATCCAGAAGAGATCATCGTGCTCTCAGACTCTGATTAAGTGCCTCCCCTTCTCCCTGCCTCCAGAATG  
TTCTGGGATAACATTTGGAGGAAGGTGGGAAGCAGATGACTGAGGAAGGGATGGACTAAGCTAATCCCCCTTTTG  
TGGTGTTCCTT

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**FIGURE 1943**

MATANSIIIVLDDDDDEDEAAAQPGPSHPLPNAASPGAEAPSSSEPHGARGSSSSSGGKKCYKLENEKLFEEFLELCK  
MQTADHPEVVPFLYNRQORAHSLFLASAEFCNILSRVLSRARSRAKLYVYINELCTVLKAHSAKKKLNLA PAAT  
TSNEPSGNNPPTHLSLDPTNAENTASQSPRTRGSRRQIQRLQQLALYVAEIRRLQEKELDLSELDDPD SAYLQE  
ARLKRKLIRLFGRLCELKDCSSLTGRVIEQRIPYRGTRYPEVNRRIERLINKPGPDTFPDYGDVLR AVEKAAARH  
SLGLPRQQLQLMAQDAFRDVGIRLQERRHLDLIYNFGCHLTDDYRPGVDPALSDPVLARRLR ENRSLAMSR LDEV  
ISKYAMLQDKSEEGERKKRRARLQGTSSHSADTPEASLDSGEGPSGMASQGCP SASRAETDDEDEESDEEEEEE  
EEEEEEEATDSEEEEDLEQM QEGQEDDEEEDEEEEAAGKDGDKSPMSSLQISNEKNLEPGKQISRSSGEQQNKG  
RIVSPSLLSEEPLAPSSIDAESNGEQPEELTLEESPVSQLFELEIEALPLDTPSSVETDISSSRKQSEEPFTTV  
LENGAGMVSSTSFNGGVSPHNWGD SGFPCKKSRKEKKQTGSGPLGNSYVERQRSVHEKNGKKICTLPSPPSPLAS  
LAPVADSSTRVDSPSHGLVTSSLCIPSPARLSQTPHSQPPRPGTCKTSVATQCDPEEIIIVLSDSD



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**FIGURE 1944**

GGCACGAGGGCTGAGAAGAGTTTTGCACGTGGATCGCCGTTCTGGGTGGGCGAGATGGAGACAGCCCCCAAGCCGG  
GCAAGGATGTCCCGCCCAAGAAAGACAACTTCAGACCAAGAGAAAGAAACCGCGGCGATACTGGGAGGAAGAGA  
CCGTTCCGACCACAGCCGGAGCCTCTCCAGGGCCTCCTCGTAACAAGAAGAATCGGGAGCTCCGTCTCAGAGAC  
CAAAAAATGCTTACATCTTAAAGAAGTCTCGGATCTCTAAGAAGCCTCAGGTCCCGAAGAAACCCCGAGAATGGA  
AGAACCCGGAGTCCCAGCGCGGCTTGTCCGGGGCCCAAGATCCATTCCCAGGCCCCGCCCCGCTCCCTGTGGAAG  
TGGTCCAGAAGTTCTGTGCGATTGACAAATCCCGAAAGCTACCACATTCTAAAGCCAAAACCTCGAAGCCGACTTG  
AGGTGGCTGAAGCTGAGGAAGAGGAAACAAGTATCAAAGCTGCTCGTTCTGAGCTGCTGCTTGTGTAAGAACCTG  
GGTTTCTGGAAGGGGAGGATGGGGAAGACACAGCAAAGATATGCCAGGCTGACATTGTGGAGGCTGTGGACATTG  
CAAGTGCAGCCAAGCACTTTGACTTGAATCTGCGGCAGTTTGGACCTACAGACTAACTACTCTCGAACTGGAA  
GACACCTGGCTTTTGGAGGGCGCCGAGGTCATGTGGCTGCCCTTGATTGGGTAACAAAGAAGCTTATGTGCGAGA  
TCAACGTCATGGAGGCGGTGCGGGACATCCGGTTTCTCCATTCTGAGGCACTGCTTGTGTTGCTCAGAACCGCT  
GGCTCCACATCTATGACAATCAGGGCATTGAGCTCCACTGTATCCGCCGCTGTGACCGAGTAACACGGCTTGAGT  
TCCTGCCCTTCCACTTCCCTCTGGCTACAGCTTCAGAAACAGGGTTTCTAACCTACCTGGATGTGTGAGTGGGA  
AGATTGTGGCAGCTCTGAATGCTCGAGCTGGGCGGCTCGATGTTATGAGTCAGAACCCTTACAATGCCGTCATCC  
ATCTCGGACACAGCAATGGTACTGTGTCTTTATGGAGTCCAGCTATGAAGGAGCCACTGGCAAAGATTCTCTGTC  
ATCGTGGTGGGGTCCGGGCTGTGGCAGTAGATTCTACAGGCACGTACATGGCCACCTCTGGCCTAGACCACCAGC  
TGAAGATCTTTGACTTGCAGGGGACGTACCAGCCTCTGAGCACTCGGACCCTGCCCCATGGAGCAGGGCACCTGG  
CCTTCTCCCAGAGGGGACTGCTGGTGGCGGGAATGGGTGACGTTGTCAACATCTGGGCAGGGCAGGGCAAGGCCA  
GCCCCCCTCCCTTGAACAGCCCTACCTCACCCACCGGCTCTCAGGCCCTGTGCATGGCCTTCAGTTCTGCCCCT  
TTGAAGATGTGCTGGGGGTGGGGCACACTGGGGGCATCACCAGCATGCTGGTCCCTGGGGCCGGTGAGCCCACT  
TCGATGGCCTGGAGAGTAATCCATACAGAAGCCGGAAGCAGCGCCAGGAGTGGGAGGTGAAGGCCCTGCTAGAGA  
AGGTACCTGCAGAGCTTATTTGTCTGGACCCACGAGCCCTGGCCGAGGTGGATGTCATCTCCCTGGAGCAGGGAA  
AGAAGGAGCAGATAGAGAGGCTGGGCTATGACCCGCGAGGCTAAGGCTCCCTTCCAGCCAAAGCCAAAGCAGAAGG  
GCCGCAGCTCCACGGCAAGCCTGGTGAAGAGGAAGAGGAAGGTCATGGATGAGGAACACAGGGACAAGGTCCGGC  
AGAGCCTTCAGCAGCAGCATCATAAGGAGGCGAAGGCCAAGCCCACGGGGGCCCGGCCATCTGCCCTGGACAGAT  
TTGTGCGCTGAGGCCAGACTCCAGGGTTGCCTGGGAACAGTCTCTCCCCAAGATCACCTGTAGGGAAATGAGTGT  
CCCTGGAACAAGGAGGTGGGGGCAGTGTGGCCCCCTTCCCCAAGTGGGGGTGGACAGCTGTCTCCTGGGGTGGGTT  
GGTATTAAAGAGGAAAGCGATTTTTTGGAAAAA

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**FIGURE 1945**

METAPKPGKDVPPKKDKLQTKRKKPRRYWEEETVPTTAGASPGPPRNKKNRELRPQRPKNAYILKKSRI SKKPQV  
PKKPREWKNPESQRGLSGAQDPFPGPAPVPVEVVQKFCRIDKSRKLP HSKAKTRSRLEVAEAE EEEETS IKAARSE  
LLLAEEP GFLEGEDGEDTAKICQADIVEAVD IASAAKHFDLNL RQFGPYRLNYSRTGRHLAFGGRRGHVAALDWV  
TKKLMCEINVMEAVRDIRFLHSEALLAVAQNRWLHIYDNQGIELHCIRRCDRVTRLEFLPFHFL LATASETGFLT  
YLDVSVGKIVAALNARAGRLDVMSQNPYNAVIHLGHSNGTVSLWSPAMKEPLAKILCHRG GVRRAVAVDSTGT YMA  
TSGLDHQLKIFDLRGTYQPLSTRTLPHGAGHLAFSQRGLLVAGMGDVVNIWAGQGKASPPSLEQPYLTHRLSGPV  
HGLQFCPFEDVLGVGHTGGITSMLVPGAGEPNFDGLESNPYRSRKQRQEW EVKALLEKVP AELICLDPRALAEVD  
VISLEQ GKKEQIERLGYDPQAKAPFQPKPKQKGRSSTASLVKRKRKVMDEEHRDKVRQSLQQQHHKEAKAKPTGA  
RPSALDRFVR

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**FIGURE 1946**

CTCTCTTCCACAGGAGGCCTACACGCCGCCGCTTGTGCTGCAGCCATGTCTCTAGTGATCCCTGAAAAGTTCCAG  
CATATTTTGCAGTACTCAACACCAACATCGATGGGCGGCGGAAAATAGCCTTTGCCATCACTGCCATTAAAGGT  
GTGGGCCGAAGATATGCTCATGTGGTGTGAGGAAAGCAGACATTGACCTCACCAGAGGGCGGGAGAACTCACT  
GAGGATGAGGTGGAACGTGTGATCACCATTATGCAGAATCCAGCCAGTACAAGATCCCAGACTGGTTCTTGAAC  
AGACAGAAGGATGTAAAGGATGGAAAATACAGCCAGGTCTAGCCAATGGTCTGGACAACAAGCTCCGTGAAGAC  
CTGGAGCGACTGAAGAAGATTCTGGGCCCATAGAGGGCTGCGTCACTTCTGGGGCCTTCGTGTCCGAGGCCAGCAC  
ACCAAGACCACTGGCCGCCGTGGCCGCACCGTGGGTGTGTCCAAGAAGAATAAGTCTGTAGGCCTTGTCTGTTA  
ATAAATAGTTTATATACAAAAAA

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**FIGURE 1947**

MSLVIPEKFQHILRVLNTNIDGRRKIAFAITAIKGVGRRYAHVVLRKADIDLTKRAGELTEDEVERVITIMQNPR  
QYKIPDWFLNRQKDVKDGYKYSQVLANGLDNKLREDLERLKKIRAHRLRHFWGLRVRGQHTKTTGRRGRTVGVSK  
KK

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**FIGURE 1948**

GGAGAGGATCCCGGAGCCGGTGAGAATTCTCTGTTTTTCTCTACCATCCTTTCCAGGCCTTTTCTCACCTAAT  
GAGTCGTAGAGACGAGGGCCCAGAGAGTCTGTAAAGTGGCTGGTGAAAGATTAGTGTCCCAGGGCCCTACATCCG  
GGAGGTGGTTCGGGATAAAGAGAACTAGTCTTGGGAACAATGTAGGTGGGAACCTTAAGGGAATGGGAGAGCGGCC  
CATAGAGGTGGACGGAGGGCGCGATTGGAGTAAAGCGGACCCTGTGTAGGTATAGAGTTGAGTCAAGTGGAGTCA  
CTGCCTCTGTCCCTCTGGTCAGCGTGATGGCCAGAGGCCTGGGGGGCCCCCTGGGTGGCCGTGGGACTGCTGA  
CCTGGGCGACCTTGGGGCTTCTGGTGGCTGGACTCGGGGGTTCATGACGACCTGCACGACGATCTGCAAGAGGACT  
TCCATGGCCACAGCCACAGGCACTCACATGAAGATTTCCACCATGGCCACAGCCATGCCATGGCCATGGCCACA  
CTCACGAGAGCATCTGGCATGGACATACCCACGATCACGACCATGGACATTACATGAGGATTTACACCATGGCC  
ATAGCCATGGCTACTCCCATGAGAGCCTCTACCACAGAGGACATGGACATGACCATGAGCATAGCCATGGAGGCT  
ATGGGGAGTCTGGGGCTCCAGGCATCAAGCAGGACCTGGATGCTGTCACTCTCTGGGCTTATGCACTGGGGGCCA  
CAGTGTGATCTCAGCAGCTCCATTTTTTGTCTCTTCCCTTATCCCCGTGGAGTCGAACTCTCCCCGGCATCGCT  
CTCTACTTCAGATCTTGCTCAGTTTTGCTTCCGGTGGGCTCCTGGGAGATGCTTTCTGACCTCATTCTCATG  
CTCTTGAACCTCATTTCTACCACACTCTGGAGCAACCCGGACATGGACACTCCCACAGTGGCCAGGGCCCCATT  
TGTCTGTGGGACTGTGGTTCTCAGTGAATTGTTGCCTTTCTTGTCTGGAGAAATTTGTGAGACATGTGAAAG  
GAGGACATGGTCACAGTCATGGACATGGACACGCTCACAGTCATACACGTGGAAGTCATGGACATGGAAGACAAG  
AGCGTTCTACCAAGGAGAAGCAGAGCTCAGAGGAAGAAGAAAAGGAAACAAGAGGGGTTTCAAGAGGCGAGGAG  
GGAGCACAGTACCCAAAGATGGGCCAGTGAGACCTCAGAACGCTGAAGAAGAAAAAGAGGCTTAGACCTGCGTG  
TGTCGGGGTACCTGAATCTGGCTGCTGACTTGGCACACAACCTTCACTGATGGTCTGGCCATTGGGGCTTCCTTTC  
GAGGGGGCCGGGGACTAGGGATCCTGACCACAATGACTGTCCTGCTACATGAAGTGCCCCACGAGGTCGGAGACT  
TTGCCATCTTGGTCCAGTCTGGCTGCAGCAAAAAGCAGGCGATGCGTCTGCAACTACTGACAGCAGTAGGGGCAC  
TGGCAGGCACAGCCTTGCCCTTCTCACTGAAGGAGGAGCAGTGGGCAGTGAAATTGCAGGTGGTGCAGGTCCTG  
GCTGGGTCTGCCATTTACTGCAGGTGGCTTTATCTACGTAGCAACAGTGTCTGTGTTGCCCAGCTGCTGAGGG  
AGGCATCACCATTGCAATCACTTCTGGAGGTGCTGGGGCTGCTGGGGGGAGTTATCATGATGGTGTGATTGCC  
ACCTTGAGTGAGGGGTGGATAAACTACCCCTGCCCCAAACCTCTACCCCTAACTCCAGGTCAGGGGTGCGTAGAG  
GTTGGGGGCCCTGGCCAGGGACATCTGCCAAAGGAAGGAAGTGTAGCCTGGGAGAATGGTTACTTTGGCATTAGG  
GCCTTCAAGGGCTGGCAGTCTTACAGAGGCTGGAGCGGTGAGAATGAGAGGCCAGAGGGACCATAGTGTGGGCA  
CTGTCTGACCATGTTGCATTGGAAGGCTAAATGGGGCCATGAAGAAGGCTGGAAGGGACAGGGGGTGATGGCAG  
CCTACCTGGTGTCCCTACCCACCTGTTCTCGGAGAACCAAGTTGCTACACAGGAAGTTCTCCAAGGTCCAGTT  
TCCTTTCTCCACAGTTGGTGGAGGCTTCAGGGAAGACCAGAGTCTTGACAGAGAGGGTAACAGGAGGAGTCG  
GGGATAAACATCAAACATCAATCGTGTGTCCTGATTTGGGAGTGATTGGGGGGATGGGGTGGGAGAGGGTTAGTT  
GGTATTCTCATGGCCTGATTTTTTTTTGTTTCTATTCTTTTATATCACTGTGTTTGAATCGAGGGGGAGGGGTGG  
TAACCGGAAATAAAGACCTCCGATCTTCCGCCCC

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**FIGURE 1949**

GCTCACAGTCATCAATTATAGACCCCAACAACATGCGCCCTGAAGACAGAATGTTCCATATCAGAGCTGTGATCTT  
GAGAGCCCTCTCCTTGGCTTTCCTGCTGAGTCTCCGAGGAGCTGGGGCCATCAAGGCGGACCATGTGTCAACTTA  
TGCCGCGTTTGTACAGACGCATAGACCAACAGGGGAGTTTATGTTTGAATTTGATGAAGATGAGATGTTCTATGT  
GGATCTGGACAAGAAGGAGACCGTCTGGCATCTGGAGGAGTTTGGCCAAGCCTTTTCCTTTGAGGCTCAGGGCGG  
GCTGGCTAACATTGCTATATTGAACAACAACCTTGAATACCTTGATCCAGCGTTCCAACCACACTCAGGCCACCAA  
CGATCCCCCTGAGGTGACCGTGTTTCCCAAGGAGCCTGTGGAGCTGGGCCAGCCCAACACCCTCATCTGCCACAT  
TGACAAGTTCTTCCCACCAGTGCTCAACGTCACGTGGCTGTGCAACGGGGAGCTGGTCACTGAGGGTGTCGCTGA  
GAGCCTCTTCCTGCCCAGAACAGATTACAGCTTCCACAAGTTCCATTACCTGACCTTTGTGCCCTCAGCAGAGGA  
CTTCTATGACTGCAGGGTGGAGCACTGGGGCTTGGACCAGCCGCTCCTCAAGCACTGGGAGGCCCAAGAGCCAAT  
CCAGATGCCTGAGACAACGGGAGACTGTGCTCTGTGCCCTGGGCCTGGTGCTGGGCCTAGTCGGCATCATCGTGGG  
CACCGTCCCTCATATAAAGTCTCTGCGTTCTGGCCATGACCCCCGGGGCCAGGGGACCCTGTGAAAATACTGTAAA  
GGTGACAAAATATCTGAACAGAAGAGGACTTAGGAGAGATCTGAACTCCAGCTGCCCTACAAACTCCATCTCAGC  
TTTTCTTCTCACTTCATGTGAAAATACTCCAGTGGCTGACTGAATTGCTGACCCCTCAAGCTCTGTCCTTATCC  
ATTACCTCAAAGCAGTCATTCCCTTAGTAAAGTTTCCAACAAATAGAAATTAATGACACTTTGGTAGCACTAATAT  
GGAGATTATCCTTTTCATTGAGCCTTTTATCCTCTGTTCTCCTTTGAAGAACCCTCACTGTCACCTTCCCGAGAA  
TACCCTAAGACCAATAAATACTTCAGTATTTT

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**FIGURE 1950**

MRPEDRMFHIRAVILRALSLAFLLSLRGAGAIKADHVSTYAAFVQTHRETGEFMFEFDEDEMFYVDLDKKETVWH  
LEEFQQAFSFEAQGGLANIAILNNNLNTLIQRSNHTQATNDPPEVTVPKEPVELGQPNTLICHIDKFFPPVLNV  
TWLCNGELVTEGVAESLFLPRTDYSFHKFHLYTFVPSAEDFYDCRVEHWGLDQPLLKHWEAQEPIQMPETTETVL  
CALGLVLGLVGIIIVGTVLIKSLRSGHDPRAQGTL

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**FIGURE 1951A**

GGACTGCGGGATAGGAAGCTGGGGATATGGACAAGCAGCAGCGTTATAGCGCTCTGGGTTTCGGGACATAGGCCT  
GGGCCATGCGGCCCCCTTGGCCCCCTTGGCGCGACCCCCAGGAACGTTTCGGAAAGCTGGTCTCGTGGCTGGGGGA  
AAGGCGGGGGGTGGGGGGGAAGCGGGCACGTGACCCCGGTACGCCAATCTGGGTGCTGCTGACGTACGCGCGCGG  
CCCCGATGCTCTCCCCACCCCCCAGCCCGTTCGGGAAGGGAGGGGCTGGGGGCTACGCCCCATCCCCAGCAG  
GCTTCGTTTTCTGGGGGGGGTTGACACCCCGGATTACATACCCCGTACCAAGCCGAGGGCAACTTTGGAGGCCC  
CCTGGAAGGCTTTAGGATCCAGATTCTTCGCTGCTGCTGCCTTACCGCCGAGAACCACCACCCGCCAGGCGTCTT  
GCGGCCACACCCCTGGCGGGTTCAGGCAGGCTACGCCCACGCGACCCCTCCCGTTTCCCTGCTTTGGCCAATGGA  
GGAGCTACGAATGGCACGACCTGCTCGAGCTTGGCAGTCTCCAGTTGGGCTGTGCATGGAAGCTTGGGAAGACTT  
TGTTGGAAGGGGAGGCGGGGAGAGAGTGCTGGAGGCTCTGGGGCGATGGCTTCCGCACCTCTTCCAACCACCCTC  
TTTCCCTGGAGTCGGCGGACCACAGCTCAGCCAATTGGCTTGGAGATGTGGCGGGTTGCCACTTCCCTGTGGGTC  
TCTGCGGCACTCTTCTGCCTGGTGACTGACACCTTGGAATGAAGTTTATGACGTCATCGTTGCGGCTGGCCAAT  
AGAAAAGCTCCCGCGGAGAGGTGTTCTTCCCTTCGACTCAGCTTCTTACCCGCGTGAGCGAGCGCGCGCGC  
GCGGAGGGGGTGGGGAAAATCTCAAGCAGGCTGGCGCGCATGAGCGGCGAAGCTCCTCCTCCCGCCTATATATA  
AAGGGCTGGCGCGGGGCTCGGCGGCGCCATTTCGTGCTGGAGTGGAGCAGCCTCTAGAACGAGCTGGAGGATTCT  
GCCTACCGATACAGAGCCTTCGAGTGTCCGGGGCCGCCATTACAATCCACCTCCATCCGCTTGGAAATGGCCTT  
CGTCCCGGCCTATGACTGGTCCCAGCGGGCAGTACAGACCCCTAGAAGCCCTGGAGCTCCCTTTTTTCGGGCC  
CCGCCAATCCTCGGAGTCTGTCCACCCCTCTACTCCGCCCTCAAGAGGATTTCAAAGATGGAGGCGGCGGCTC  
CCTAAACCACTTTTTCTGTTCATCCGCTCCATCCGAGATCGAAACGGGACCTCGTCGGCCCCGTAGGGGGCCGA  
CAAGAAGAGGGAATCCCTGCAGACCAACAGCGGGCTATATTGACGACGGTGTCTGAGATCGGGGACCGTCTTTTG  
AAGAGTCAGTCCCTCCTTAGTTGCCCGCCTCAGCTGAGGCGCGGCCATTTTCTTGCTGTCCGCCGTCTGCAGAG  
CGCGCCAAGCTGCCCGGAGCTCTCCGAGAGGCCCCAAAGAGACTGCTTTCGTGCCGGCCAGGCAGGGGGTTTGT  
GCCTGGAGGCCCAAGAGGAACGGCCTCCCCCAACTTAGCGGGTTATGCTGGACCGGGCGGTGAGGGGAACCGAG  
GCCACCCGGACTTTCCGCGGCTGAGGGCAGCGCCGTTTCTTGCGGTCAAGATGCTGCAAAACGTGACTCCCCAC  
AATAAGCTCCCTGGGGAAGGGAATGCAGGGTTGCTGGGGCTGGGCCAGAAGCAGCAGCACCAGGGAAAAGGATT  
CGAAAACCCTCTCTCTTGTATGAGGGCTTTGAGAGCCCCACAATGGCTTCGGTGCCTGCTTTGCAACTTACCCCT  
GCCAACCACACCCCCGAGGTGTCCAATCCCAAAAAGCCAGGACGAGTTACCAACCAGCTGCAATACCTACAC  
AAGGTAGTGATGAAGGCTCTGTGGAACATCAGTTTCGATGGCCATTCCGGCAGCCTGTGGATGCTGTCAAACCTG  
GGTCTACCGGATTATCAGAAAATTATAAAAACAGCCTATGGACATGGGTACTATTAAGAGGAGACTTGAAAACAAT  
TATTATTGGGCTGCTTCAGAGTGTATGCAAGATTTTAATACCATGTTACCAACTGTTACATTTACAACAAGCCC  
ACTGATGATATTGTCTAATGGCACAAACGCTGGAAAAGATATTCTACAGAAGGTTGCATCAATGCCACAAGAA  
GAACAAGAGCTGGTAGTGACCATCCCTAAGAACAGCCACAAGAAGGGGGCCAAGTTGGCAGCGCTCCAGGGCAGT  
GTTACCAGTGCCCATCAGGTGCCTGCCGTCTCTTCTGTGTACACACAGCCCTGTATACTCCTCCACCTGAGATA  
CCTACCAGTGTCTTCAACATTCCCCACCCATCAGTCATTTCTCTCCACTTCTCAAGTCTTGCACCTCTGCTGGA  
CCCCGCTCCTTGCTGTTACTGCAGCTCCTCCAGCCAGCCCTTGCCAAGAAAAAAGGCGTAAAGCGGAAAGCA  
GATACTACCACCCCTACACCTACAGCCATCTTGGCTCCTGGTTCTCCAGCTAGCCCTCCTGGGAGTCTTGAGCCT  
AAGGCAGCAGCGCTTCCCCCTATGCGTAGAGAGAGTGGTCGCCCCATCAAGCCCCACGCAAAGACTTGCTGAC  
TCTCAGCAACAACACCAGAGCTCTAAGAAAGGAAAGCTTTCAGAACAGTTAAACATTGCAATGGCATTTTGAAG  
GAGTTACTCTCTAAGAAGCATGCTGCCTATGCTTGGCCTTCTATAAACCAGTGGATGCTTCTGCACTTGGCCTG  
CATGACTACCATGACATCATTAAAGCACCCTATGGACCTCAGCACTGTCAAGCGGAAGATGGAGAACCCTGATTAC  
CGGGATGCACAGGAGTTTGTGCTGATGTACGGCTTATGTTCTCCAAGTCTATAAGTACAATCCCCAGATCAC  
GATGTTGTGGCAATGGCACGAAAGCTACAGGATGTATTTGAGTTCCGTTATGCCAAGATGCCAGATGAACCACTA  
GAACCAGGGCCTTTACCAGTCTCTACTGCCATGCCCCCTGGCTTGGCCAAATCGTCTTCAGAGTCTTCCAGTGAG  
GAAAGTAGCAGTGAGAGCTCCTCTGAGGAAGAGGAGGAGGAAGATGAGGAGGACGAGGAGGAAGAAGAGAGTGAA  
AGCTCAGACTCAGAGGAAGAAAGGGCTCATCGCTTAGCAGAACTACAGGAACAGCTTCGGGCAGTACATGAACAA  
CTGGCTGCTCTGTCCCAGGGTCCAATATCCAAGCCCCAAGAGGAAAAGAGAGAAAAAAGAGAAAAAGAAGAACGG  
AAGGCAGAGAAGCATCGAGGCCGAGCTGGGGCCGATGAAGATGACAAGGGGGCTAGGGCACCCCGCCACCTCAA  
CCTAAGAAGTCCAAGAAAGCAAGTGGCAGTGGGGGTGGCAGTGTGCTTTAGGCCCTTCCGGCTTTGGACCTTCT  
GGAGGAAGTGGCACCAAGCTCCCCAAAAGGCCACAAAGACAGCCCCACCTGCCCTGCCTACAGGTTATGATTCA



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**FIGURE 1951B**

GAGGAGGAGGAAGAGAGCAGGCCCATGAGTTACGATGAGAAGCGGCAGCTGAGCCTGGACATCAACAAATTACCT  
GGGGAGAAGCTGGGCCGAGTTGTGCATATAATCCAAGCCAGGGAGCCCTCTTTACGTGATTCAAACCCAGAAGAG  
ATTGAGATTGATTTTGAAACACTCAAGCCATCCACACTTAGAGAGCTTGAGCGCTATGTCCTTTCCTGCCTACGT  
AAGAAACCCCGGAAGCCCTACACCATTAAAGAAGCCTGTGGGAAAGACAAAGGAGGAAGTGGCTTTGGAGAAAAAG  
CGGAATTAGAAAAGCGGTTACAAGATGTCAGCGGACAGCTCAATTCTACTAAAAAGCCCCCAAGAAAGCGAAT  
GAGAAAACAGAGTCATCCTCTGCACAGCAAGTAGCAGTGTACGCCTTAGCGCTTCCAGCTCCAGCTCAGATTCC  
AGCTCCTCCTCTTCCTCGTCGTCGTCTTCAGACACCAGTGATTCAGACTCAGGCTAAGGGGTCAGGCCAGATGGG  
GCAGGAAGGCTCCGCAGGACCGGACCCCTAGACCACCCCTGCCCCACCTGCCCCCTTCCCCCTTTGCTGTGACACTT  
CTTCATCTCACCCCCCCTGCCCCCTCTAGGAGAGCTGGCTCTGCAGTGGGGGAGGGATGCAGGGACATTTACT  
GAAGGAGGGACATGGACAAAACAACATTGAATTCCCAGCCCCATTGGGGAGTGATCTCTTGGACACAGAGCCCCC  
ATTCAAATGGGGCAGGGCAAGGGTGGGAGTGTGCAAAGCCCTGATCTGGAGTTACCTGAGGCCATAGCTGCCCT  
ATTCACTTCTAAGGGCCCTGTTTTGAGATTGTTTGTCTAATTTATTTTAAGCTAGGTAAGGCTGGGGGGAGGGT  
GGGGCCGTGGTCCCCTCAGCCTCCATGGGGAGGGAAGAAGGGGGAGCTCTTTTTTTACGTTGATTTTTTTTTTC  
TACTCTGTTTTCCCTTTTTTCCCTCCGCTCCATTTGGGGCCCTGGGGGTTTCAGTCATCTCCCCATTTGGTCCCCT  
GGACTGTCTTTGTTGATTCTAACTTGTAATAAAGAAAATATT

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**FIGURE 1952**

GGGCAGAAAGGGCÄCGCTCTTGTGGGTGACTACAGGTTAGGAGACCGTTGAACCTGGAGGGGGCCCTAGGATGGAC  
CCCGTGGAAAGATTTCAGAGACTGCGCCCTCTCCCTGGCGCCGCCTTCCCCTACACGCGGGGGTATATTCTGTTG  
CAGTTGGCCCAGGACCTGTTTCCAAGACTCTGCCCCCTCGCACTTCCGTCCCTCCTGGTTTTGTAAAGTGATGCT  
CATAGGAACCCCCACCCGCGTGACACTACTCCAGCTCCTGGCTGACTTCTAGTCTTCTGGTTGAAGCTGCGCC  
TTTAGATGACACGACCCTACCCACCCCTGTTTCCAGCGGATGCCCGGGCCTGGAGCCCACAGAATTCTTCCAGTC  
CCTGGGTGGGGACGGAGAAAGGAACGTTTCAGATTGAGATGGCCCATGGCACCACCACGCTCGCCTTCAAGTTCCA  
GCATGGAGTGATTGCAGCAGTGGATTCTCGGGCCTCAGCTGGGTCCCTACATTAGTGCCTTACGGGTGAACAAGGT  
GATTGAGATTAACCCCTTACCTGCTTGGCACCATGTCTGGCTGTGCAGCAGACTGTCAGTACTGGGAGCGCCTGCT  
GGCCAAGGAATGCAGGCTGTACTATCTGCGAAATGGAGAACGTATTTTCAGTGTCCGCAGCCTCCAAGCTGCTGTC  
CAACATGATGTGCCAGTACCGGGGCATGGGCCTCTCTATGGGCAGTATGATCTGTGGCTGGGATAAGAAGGGTCC  
TGGACTCTACTACGTGGATGAACATGGGACTCGGCTCTCAGGAAATATGTTCTCCACGGGTAGTGGGAACACTTA  
TGCCTACGGTGTCATGGACAGTGGCTATCGGCCTAÄTCTTAGCCCTGAAGAGGCCCTATGACCTTGGCCGCAGGGC  
TATTGCTTATGCCACTCACAGAGACAGCTATTCTGGAGGCGTTGTCAATATGTACCACATGAAGGAAGATGGTTG  
GGTGAAAGTAGAAAGTACAGATGTCAGTGACCTGCTGCACCAGTACCGGGAAGCCAATCAATTAATGGTGGTGGTG  
GCAGCTGGGCAGGTCTCCTCTGGGAGGTCTTGGCCGACTCAGGGACCTAAGCCACGTTAAGTCCAAGGAGAAGAA  
GAGGCCTAGCCTGAGCCAAAGAGAGAGTACGGGCTCAGCAGCCAGAGGAGCCGCTGAAGTGCATCTTCTGCGTG  
TTCTC

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**FIGURE 1953**

MLIGTPTPRDTPSSWLTSSLLVEAAPLDDTTLPTPVSSGCPGLEPTEFFQSLGGDGERNVQIEMAHGTTTLAFK  
FQHGVIAAVDSRASAGSYISALRVNKVIEINPYLLGTMSGCAADCQYWERLLAKECRLYYLRNGERISVSAASKL  
LSNMMCQYRGMGLSMGSMICGWDKKGPGLYYVDEHGTRLSGNMFSTGSGNTYAYGVMDSGYRPNLSPEEAYDLGR  
RAIAYATHRDSYSGGVNMYHMKEDGWVKVESTDVSDLLHQYREANQ

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**FIGURE 1954**

ATTCTTGTCTGTTCTGCCTCACTCCCGAGCTCTACTGACTCCCAACAGAGCGCCCAAGAAGAAAATGGCCATAAG  
TGGAGTCCCTGTGCTAGGATTTTTTCATCATAGCTGTGCTGATGAGCGCTCAGGAATCATGGGCTATCAAAGAAGA  
ACATGTGATCATCCAGGCCGAGTTCTATCTGAATCCTGACCAATCAGGCGAGTTTATGTTTGACTTTGATGGTGA  
TGAGATTTTCCATGTGGATATGGCAAAGAAGGAGACGGTCTGGCGGCTTGAAGAATTGGACGATTTGCCAGCTT  
TGAGGCTCAAGGTGCATTGGCCAAACATAGCTGTGGACAAAGCCAACCTGGAAATCATGACAAAGCGCTCCAACCTA  
TACTCCGATCACCAATGTACCTCCAGAGGTAACCTGTGCTCACGAACAGCCCTGTGGAACTGAGAGAGCCCAACGT  
CCTCATCTGTTTCATAGACAAGTTCACCCCAACAGTGGTCAATGTCACGTGGCTTCGAAATGGAAAACCTGTCAC  
CACAGGAGTGTGAGAGACAGTCTTCCTGCCCAGGGAAGACCACCTTTTCCGCAAGTTCCACTATCTCCCCTTCCT  
GCCCTCAACTGAGGACGTTTACGACTGCAGGGTGGAGCACTGGGGCTTGGATGAGCCTCTTCTCAAGCACTGGGA  
GTTTGATGCTCCAAGCCCTCTCCCAGAGACTACAGAGAACGTGGTGTGTGCCCTGGGCCTGACTGTGGGTCTGGT  
GGGCATCATTATTGGGACCATCTTCATCATCAAGGGATTGCGCAAAAGCAATGCAGCAGAACGCAGGGGGCCTCT  
GTAAGGCACATGGAGGTGATGGTGTTCCTTAGAGAGAAGATCACTGAAGAACTTCTGCTTTAATGGCTTTACAA  
AGCTGGCAATATTACAATCCTTGACCTCAGTGAAAGCAGTCATCTTCAGCATTTTCCAGCCCTATAGCCACCCCA  
AGAGTGGTTATGCCTCCTCGATTGCTCCATACTCTAACATCTAGCTGGCTTCCTGTCTATTGCCTTTTCCTGTA  
TCTATTTTCCTCTATTTCCTATCATTTTATTATCACCATGCAATGCCTCTGGAATAAAACATACAGGAGTCTGTC  
TCTGCTATGGAATGCCCCATGGGGCATCTCTTGTGTACTTATTGTTTAAGGTTTCCTCAAACCTGTGATTTTCTG  
AACACAATAAACTATTTTGAAGATCTTGGGTGGAA

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**FIGURE 1955**

GCCGTCTTATCTAAGTCAGAGTCTCCTAAAGAGCCAGAACAACCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTT  
GAAACAACCTGATGAGAGCCTGAGGAGCCATTTTGAGCAGTGAGGGACACTCCCGGACAGTGTGGTCATGAGAGAT  
CCAAACCCAAGCGCTCCAGGGGGCTTTGGATTTTTTCACATATGCCACTGTGGAGGAGGTGGATGCAGCCGTGAATG  
CAAGGCCACACAAGGTGGATGGAAGAGCTGTGGAACCAAAGAGAGCTGTCTCAAGAGAAGATTCTCAAATACCAG  
GTGCCCACCTTAACCTGTGAAAAAGATATATGCTGGTGGCATTAAAGAAGACACTGAAGAAATCACCTAAGAAATTA  
TTTTGAGTAGTATGGAAAAATTGAAGTGATTGAAAACATGACTGACCGAGGCAGTTGCAAGAAAAGGGGCTTTGC  
CTTTGTAACCTTTGATGACCATGACTCCGTGGATAAGACTGTTCATTGAGAAATACCACAGTGTGAATGGCCACAA  
CTGTGAAGTTAGGAAAAGCCTGTCAAAGCAAGAGATGGCTAGTGTCCATCCAGCCGAAGAGGTCGAAGTGGTTCT  
GGAAACTTTTGGTGGTGGTCATGGAGGTGGTTTTCGGTGGGAATGACAACCTTGATCATGGAGGAACTTCAGTGGT  
TGTGGTAGCTTTGGTGGCAGCTGTGGTGGTGGTGGATATGGTGGCAGTGAGGATGGCTATAATGGATTTGGTAAT  
GATGGGAGCAATTTTGGAGGTGGTGGGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGGA  
CCCATGAAGGGAGGAACTTTGGAGGCAGAAGCTGTGGCCTCTATGGTGGTGGAGGCCAATACTTTGCCAAACCA  
TGAAACCAAAGTGGCTATTGTGGTTCCAGTAGCAGCAGTAGCTATGGCAGTGGCAGAGATTTTAATTAGGAAAC  
AAAGCTTAGCAGGAGAGGAGAGCCAGAGAAGTGACAGGGAAGCTACAGGTTACAACAGATTTGTGAACCTCAGCCA  
AGCACAGTGGTGGCAGGGCCTAGCTGGTACAAAGAAGACATGTTTTAGACAAATACTCATGTGTATGGGCAAAAA  
ACTCGAGGACTGTATTTGTGACTAATTGTATAACAGGTTATTTTAGTTTCTGTTCTGTGGAAAGTGTAAGCATT  
CCAACAAAGGGTTTTAATGTAGATTTTTTTTTTGCACCCATGCTGTTTATTGCTAAATGTAATAGTCTGATCGTGA  
CACTGAAAAAA

[illegible]

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**FIGURE 1957A**

AGAAGGTAGCAGACAGACAGACGGATCTAACCTCTCTTGGATCCTCCAGCCATGAGGCTGCTCTGGGGGCTGATC  
TGGGCATCCAGCTTCTTCACCTTATCTCTGCAGAAGCCCAGGTTGCTCTTGTCTCTCTCTCTGTGGTTTCATCTG  
GGGGTCCCCCTATCGGTGGGGGTGCAGCTCCAGGATGTGCCCCGAGGACAGGTAGTGAAAGGATCAGTGTTCCCTG  
AGAAACCCATCTCGTAATAATGTCCCCCTGCTCCCCAAAGGTGGACTTCACCCCTTAGCTCAGAAAGAGACTTCGCA  
CTCCTCAGTCTCCAGGTGCCCTTGAAAGATGCGAAGAGCTGTGGCCTCCATCAACTCCTCAGAGGGCCCTGAGGTC  
CAGCTGGTGGCCCATTCGCCATGGCTAAAGGACTCTCTGTCCAGAACGACAAACATCCAGGGTATCAACCTGCTC  
TTCTCCTCTCGCCGGGGGACCTCTTTTTTGACAGACGGACCAGCCCATTACAAACCTGGCCAGCGGGTTCGGTAC  
CGGGTCTTTGCTCTGGATCAGAAGATGCGCCGAGCACTGACACCATCACAGTCATGGTGGAGAATCTCACGGC  
CTCCGCGTGCGGAAGAAGGAGGTGTACATGCCCTCGTCCATCTTCCAGGATGACTTTGTGATCCCAGACATCTCA  
GAGCCAGGGACCTGGAAGATCTCAGCCGATTCTCAGATGGCCTGGAATCCAACAGCAGCACCCAGTTTGAGGTG  
AAGAAATATGTCTTCCCCAATTTGAGGTGAAGATCACCCCTGGAAAGCCCTACATCCTGACGGTGCCAGGCCAT  
CTTGATGAAATGCAGTTAGACATCCAGGCCAGGTACATCTATGGGAAGCCAGTGCAGGGGGTGGCATATGTGCGC  
TTTGGGCTCCTAGATGAGGATGGTAAGAAGACTTTCTTTTGGGGGCTGGAGAGTCAGACCAAGCTGGTGAATGGA  
CAGAGCCACATTTCCCTCTCAAAGGCAGAGTTCCAGGACGCCCTGGAGAAGCTGAATATGGGCATTACTGACCTC  
CAGGGGCTGCGCCTCTACGTTGCTGCAGCCATCATTGAGTATCCAGGTGGGGAGATGGAGGAGGCAGAGCTCACA  
TCCTGGTATTTTGTGTCATCTCCCTTCTCCTTGGATCTTAGCAAGACCAAGCGACACCTTGTGCCTGGGGCCCCC  
TTCTGCTGCAGGCCTTGGTCCGTGAGATGTGAGGCTCCCAGCTTCTGGCATTCTGTCAAAGTTTCTGCCACG  
GTGCTTCTCCTGGGTCTGTTCTGAAGTCCAGGACATTAGCAAAAACAGACGGGAGCGGCCAAGTCAGCATT  
CCAATAATTATCCCTCAGACCATCTCAGAGCTGCAGCTCTCAGTATCTGCAGGCTCCCCACATCCAGCGATAGCC  
AGGCTCACTGTGGCAGCCCCACCTTCAGGAGGGCCCCGGGTTTCTGTCTATTGAGCGGCCGGATTCTCGACCTCCT  
CGTGTGGGGACACTCTGAACCTGAACCTTGCGAGCCGTGGGCAGTGGGGCCACCTTTTCTCATTACTACTACATG  
ATCCTATCCCCAGGGCAGATCGTGTTTCATGAATCGAGAGCCCAAGAGGACCCTGACCTCGGTCTCGGTGTTTGTG  
GACCATCACCTGGCACCCCTCCTTCTACTTTGTGGCCTTCTACTACCATGGAGACCACCCAGTGGCCAACCTCCCTG  
CGAGTGGATGTCCAGGCTGGGGCCTGCGAGGGCAAGCTGGAGCTCAGCGTGGACGGTGCCAAGCAGTACCGGAAC  
GGGGAGTCCGTGAAGCTCCACTTAGAAACCGACTCCCTAGCCCTGGTGGCGCTGGGAGCCTTGGACACAGCTCTG  
TATGCTGCAGGCAGCAAGTCCCACAAGCCCCCTCAACATGGGCAAGGTCTTTGAAGCTATGAACAGCTATGACCTC  
GGCTGTGGTCTTGGGGGTGGGGACAGTGCCCTTCAGGTGTTCCAGGCAGCGGGCCTGGCCTTTTCTGATGGAGAC  
CAGTGGACCTTATCCAGAAAGAGACTAAGCTGTCCCAAGGAGAAGACAACCCGGAAAAAGAGAAACGTGAACCTC  
CAAAAGGCGATTAATGAGAAATTGGGTGAGTATGCTTCCCCGACAGCCAAGCGCTGCTGCCAGGATGGGGTGACA  
CGTCTGCCCATGATGCGTTCTGCGAGCAGCGGGCAGCCCGCTGCAGCAGCCGGACTGCCGGGAGCCCTTCCTG  
TCCTGCTGCCAATTTGCTGAGAGTCTGCGCAAGAAGAGCAGGGACAAGGGCCAGGCGGGCTCCAACGAGCCCTG  
GAGATCCTGCAGGAGGAGGACCTGATTGATGAGGATGACATTCCCGTGGCAGCTTCTTCCAGAGAACTGGCTC  
TGGAGAGTGGAAACAGTGGACCGCTTCAAATATTGACACTGTGGCTCCCCGACTCTCTGACCACGTGGGAGATC  
CATGGCCTGAGCCTGTCCAAAACCAAAGGCCTATGTGTGGCCACCCAGTCCAGCTCCGGGTGTTCCGCGAGTTC  
CACCTGCACCTCCGCTGCCCATGTCTGTCCGCGCTTTGAGCAGCTGGAGCTGCGGCCTGTCTCTATAACTAC  
CTGGATAAAAACCTGACTGTGAGCGTCCACGTGTCCCGAGTGGAGGGGCTGTGCCTGGCTGGGGGCGGAGGGCTG  
GCCAGCAGGTGCTGGTGCTGCGGGCTCTGCCCGGCTGTTGCCTTCTCTGTGGTGCCACGGCAGCCGCGCT  
GTGTCTCTGAAGGTGGTGGCTCGAGGGTCTTCGAATTCCTGTGGGAGATGCGGTGTCCAAGGTTCTGCAGATT  
GAGAAGGAAGGGCCATCCATAGAGAGGAGCTGGTCTATGAACTCAACCCCTTGGACCACCGAGGCGGACCTTG  
GAAATACCTGGCAACTCTGATCCCAATATGATCCCTGATGGGACTTTAACAGCTACGTGAGGGTTACAGCCTCA  
GATCCATTGGACACTTTAGGCTCTGAGGGGGCCTTGTACCAGGAGGCGTGGCCTCCCTCTTGAGGCTTCTCGA  
GGCTGTGGGGAGCAAACCATGATCTACTTGGCTCCGACACTGGCTGCTTCCCGCTACCTGGACAAGACAGAGCAG  
TGGAGCACACTGCCTCCCGAGACCAAGGACCACGCCGTGGATCTGATCCAGAAAGGCTACATGCGGATCCAGCAG  
TTTCGGAAGGCGGATGGTTCTATGCGGCTTGGTTGTACGGGGCAGCAGCACCTGGCTCACAGCCTTTGTGTTG  
AAGGTCCTGAGTTTGGCCAGGAGCAGGTAGGAGGATCGCCTGAGAACTGCAGGAGACATCTAACTGGCTTCTG  
TCCCAGCAGCAGGCTGACGGCTCGTTCCAGGACCTCTCTCCAGTGATACATAGGAGCATGCAGGGGGGTTTGGTG  
GGCAATGATGAGACTGTGGCACTCACAGCCTTTGTGACCATCGCCCTTCATCATGGGCTGGCCGTCTTCCAGGAT  
GAGGGTGCAGAGCCATTGAAGCAGAGAGTGGAAGCCTCCATCTCAAAGGCAAGCTCATTTTTGGGGGAGAAAGCA

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**FIGURE 1957B**

AGTGCTGGGCTCCTGGGTGCCCCACGCAGCTGCCATCACGGCCTATGCCCTGACACTGACCAAGGCCCTGCGGAC  
CTGCGGGGTGTTGCCCACAACAACCTCATGGCAATGGCCCAGGAGACTGGAGATAACCTGTACTGGGGCTCAGTC  
ACTGGTTCTCAGAGCAATGCCGTGTCGCCCACCCCGGCTCCTCGCAACCCATCCGACCCCATGCCCCAGGCCCA  
GCCCTGTGGATTGAAACCACAGCCTACGCCCTGCTGCACCTCCTGCTTCACGAGGGCAAAGCAGAGATGGCAGAC  
CAGGCTGCGGCCTGGCTCACCCGTCAGGGCAGCTTCCAAGGGGGATTCCGCAGTACCCAAGACACGGTGATTGCC  
CTGGATGCCCTGTCTGCCTACTGGATTGCCTCCACACCACTGAGGAGAGGGGTCTCAATGTGACTCTCAGCTCC  
ACAGGCCGGAATGGGTTCAAGTCCCACGCGCTGCAGCTGAACAACCGCCAGATTCCGCGGCCTGGAGGAGGAGCTG  
CAGTTTTCTTGGGCAGCAAGATCAATGTGAAGGTGGGAGGAAACAGCAAAGGAACCTGAAGGTCTTTCGTACC  
TACAATGTCTTGACATGAAGAACACGACCTGCCAGGACCTACAGATAGAAGTGACAGTCAAAGGCCACGTGAG  
TACACGATGGAAGCAAACGAGGACTATGAGGACTATGAGTACGATGAGCTTCCAGCCAAGGATGACCCAGATGCC  
CCTCTGCAGCCCGTGACACCCCTGCAGCTGTTTTGAGGGTTCGGAGGAACCGCCGAGGAGGGAGGCGCCCAAGGTG  
GTGGAGGAGCAGGAGTCCAGGGTGCCTACACCGTGTGCATCTGGCGGAACGGCAAGGTGGGGCTGTCTGGCATG  
GCCATCGCGGACGTCACCTCCTGAGTGGATTCCACGCCCTGCGTGCTGACCTGGAGAAGCTGACCTCCCTCTCT  
GACCGTTACGTGAGTCACTTTGAGACCGAGGGGGCCCCACGTCTGCTGTATTTGACTCGGTCCCCACCTCCCGG  
GAGTGCGTGGGCTTTGAGGCTGTGCAGGAAGTGCCGTGGGGCTGGTGCAGCCGGCCAGCGCAACCTGTACGAC  
TACTACAACCCCGAGCGCAGATGTTCTGTGTTTTACGGGGCACCAAGTAAGAGCAGACTCTTGGCCACCTTGTGT  
TCTGCTGAAGCTGCCAGTGTGCTGAGGGGAAGTGCCCTCGCCAGCGTCGCGCCCTGGAGCGGGTCTGCAGGAC  
GAGGATGGCTACAGGATGAAGTTGCCTGCTACTACCCCGTGTGGAGTACGGCTTCCAGGTTAAGGTTCTCCGA  
GAAGACAGCAGAGCTGCTTTCCGCCTCTTTGAGACCAAGATCACCAAGTCTGCACTTACCAAGGATGTCAAG  
GCCGCTGCTAATCAGATGCGCAACTTCTTGTTTCGAGCCTCCTGCCGCTTCGCTTGGAACCTGGGAAAGAATAT  
TTGATCATGGGTCTGGATGGGGCCACCTATGACCTCGAGGGACACCCCGAGTACCTGCTGGACTCGAATAGCTGG  
ATCGAGGAGATGCCCTCTGAACGCCTGTGCCGGAGCACCCGCCAGCGGGCAGCCTGTGCCAGCTCAACGACTTC  
CTCCAGGAGTATGGCACTCAGGGGTGCCAGGTGTGAGGGCTGCCCTCCACCTCCGCTGGGAGGAACCTGAACCT  
GGGAACCATGAAGCTGGAAGCACTGCTGTGTCCGCTTTCATGAACACAGCCTGGGACCAGGGCATATTAAAGGCT  
TTTGGCAGCAAAGTGTGCTGAGTTGGC



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**FIGURE 1958**

MRLWLGLIWASSFFTLSQLKPRLLLFSPSVVHLGVPLSVGVQLQDVPRGQVVKGSVFLRNPSRNNVPCSPKVDF  
LSSERDFALLSLQVPLKDAKSCGLHQLLRGPEVQLVAHSPWLKDSLSRTTNIQGINLLFSSRRGHLFLQTDQPIY  
NPGQVRVRYRVFALDQKMRPSTDTITVMVENSHGLRVKKEVYMPSSIFQDDFVIPDISEPGTWKISARFSDGLES  
NSSTQFEVKKYVLPNFEVKITPGKPYILTVPGHLDQMQLDIQARYIYGKPVQGVAYVRFGLLDEDGKKTFFRGLE  
SQTCLVNGQSHISLSKAEFQDALEKLNMGITDLQGLRLYVAAAIIEYPGGEMEEAELTSWYFVSSPFSLDLSKTK  
RHLVPGAPFLLQALVREMSGSPASGIPVKVSATVSSPGSVPEVQDIQONTDGSQVSIPIIIPQTISELQLSVSA  
GSPHPAIARLTVAAPPSGGPGFLSIERPDSRPPRVGDTLNLNLRAVGSGATFSHYYYMILSRGQIVFMNREPRT  
LTSVSVFVDHHLAPSFYFVAFYYHGDHPVANSRVDVQAGACEGKLELSVDGAKQYRNGESVKLHLETDLSALVA  
LGALDTALYAAGSKSHKPLNMGKVFAMNSYDLGCGPGGGDSALQVFQAAGLAFSDGDQWTLRKLSCPKEKTT  
RKKRNVNFQKAINKLGQYASPTAKRCCQDGVTRLPMMSCEQRAARVQOPDCREPFLSCCQFAESLRKKS RDKG  
QAGLQRALEILQEEDLIDEDDIPVRSFFPENWLWRVETVDRFQILTLWLPDSLTTWEIHGLSLSKTKGLCVATPV  
QLRVFREFHLHLRLPMSVRRFEQLELRPVLYNYLDKNLTVSVHVSPVEGLCLAGGGGLAQQVLVPAGSARPVAFS  
VVPTAAAVSLKVVARGSFEFPVGDAVSKVLQIEKEGAIHREELVYELNPLDHRGRTLEIPGNSDPNMIPDGFN  
SYVRVTASDPLDTLGSEGALSPGGVASLLRLPRGCGEQTMIIYLAPTLAASRYLDKTEQWSTLPPETKDHAVDLIQ  
KGYMRIQQFRKADGSYAAWLSRGSSTWLTAFLVKVLSLAQEQVGGSPEKLQETSNWLLSQQQADGSFQDLSPVIH  
RSMQGGLVGNDETVALTAFVTIALHHGLAVFQDEGAEPKQKQVEASISKASSFLGEKASAGLLGAHAAAITAYAL  
TLTKAPADLRGVAHNNLMAMAQETGDNLYWGSVTGSQSNVSPTPAPRNP SDPMPQAPALWIETTAYALLHLLH  
EGKAEMADQAAAWLTRQGSFQGGFRSTQDTVIALDALSAWIASHTTEERGLNVTLSSTGRNGFKSHALQLNNRQ  
IRGLEEELQFSLGSKINVKVGNSKGTCLKVLRTYNVLDMKNTTCDLQIEVTVKGHVEYTM EANEDYEDY EYDEL  
PAKDDPDAPLQPVTPPLQLFEGRRNRRRREAPKVVEEQESRVHYTVCIWRNGKVGLSGMAIADVTLTSGFHALRAD  
LEKLTSLSDRYVSHFETEGPHVLLYFDSVPTSRECVGF EAVQEVVGLVQPASATLYDYNNPERRCSV FYGAPSK  
SRLLATLCSAEVCQCAEGKCPRQRALERGLQDEDDGYRMKFACYYPRVEYGFQVKVLREDSRAAFRLFETKITQV  
LHFTKDVKAAANQMRNFLVRASCRLRLEPGKEYLIMGLDGATYDLEGHPQYLLDSNSWIEEMP SERLCRSTRQRA  
ACAQLNDFLQEYGTQGCQV

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**FIGURE 1959**

AGGGGAAGGGAATGTGACCAGGTCTAGGTCTGGAGTTTCAGCTTGGACACTGAGCCAAGCAGACAAGCAAAGCAA  
GCCAGGACACACCATCCTGCCCCAGGCCAGCTTCTCTCCTGCCTTCCAACGCCATGGGGAGCAATCTCAGCCCC  
CAACTCTGCCTGATGCCCTTTATCTTGGGCCTCTTGTCTGGAGGTGTGACCACCACTCCATGGTCTTTGGCCAG  
CCCCAGGGATCCTGCTCTCTGGAGGGGGTAGAGATCAAAGGCGGCTCCTTCCGACTTCTCCAAGAGGGCCAGGCA  
CTGGAGTACGTGTCTCTTCTGGCTTCTACCCGTACCCTGTGCAGACACGTACCTGCAGATCTACGGGGTCTCTGG  
AGCACCTGAAGACTCAAGACCAAAAGACTGTGAGGAAGGCAGAGTGCAGAGCAATCCACTGTCCAAGACCACAC  
GACTTCGAGAACGGGGAATACTGGCCCCGGTCTCCCTACTACAATGTGAGTGTGAGATCTCTTTCCACTGCTAT  
GACGGTTACACTCTCCGGGGCTCTGCCAATCGCACCTGCCAAGTGAATGGCCGGTGGAGTGGGCAGACAGCGATC  
TGTGACAACGGAGCGGGGTACTGCTCCAACCCGGGCATCCCCATTGGCACAAGGAAGGTGGGCAGCCAGTACCGC  
CTTGAAGACAGCGTCACCTACCCTGCAGCCGGGGGCTTACCCTGCGTGGCTCCCAGCGGCGAACGTGTGAGGAA  
GGTGGCTCTTGGAGCGGGACGGAGCCTTCTGCCAAGACTCCTTCATGTACGACACCCCTCAAGAGGTGGCCGAA  
GCTTTCCTGTCTTCCCTGACAGAGACCATAGAAGGAGTGCATGCTGAGGATGGGCACGGCCCAGGGGAACAACAG  
AAGCGGAAGATCGTCTGACCCTTCAGGCTCCATGAACATCTACCTGGTGCTAGATGGATCAGACAGCATTGGG  
GCCAGCAACTTCACAGGAGCCAAAAGTGTCTAGTCAACTTAATTGAGAAGGTGGCAAGTTATGGTGTGAAGCCA  
AGATATGGTCTAGTGACATATGCCACATACCCCAAAATTTGGGTCAAAGTGTCTGAAGCAGACAGCAGTAATGCA  
GACTGGGTACGAAGCAGCTCAATGAAATCAATTATGAAGACCACAAGTTGAAGTCAGGGACTAACACCAAGAAG  
GCCCTCAGGCAGTGATCAGCATGATGAGCTGGCCAGATGACGTCCCTCCTGAAGGCTGGAACCGCACCCGCCAT  
GTCATCATCCTCATGACTGATGGATTGCACAACATGGGCGGGGACCCAATTACTGTGCTATTGATGAGATCCGGGAC  
TTGCTATACATTGGCAAGGATCGCAAAAACCCAAGGGAGGATTATCTGGATGTCTATGTGTTTGGGGTCTGGGCCT  
TTGGTGAACCAAGTGAACATCAATGCTTTGGCTTCCAAGAAAGACAATGAGCAACATGTGTTCAAAGTCAAGGAT  
ATGGAAAACCTGGAAGATGTTTTCTACCAAATGATCGATGAAAGCCAGTCTCTGAGTCTCTGTGGCATGGTTTGG  
GAACACAGGAAGGGTACCGATTACCACAAGCAACCATGGCAGGCCAAGATCTCAGTCATTGCGCCCTTCAAAGGGA  
CACGAGAGCTGTATGGGGGCTGTGGTGTCTGAGTACTTTGTGCTGACAGCAGCACATTGTTTCACTGTGGATGAC  
AAGGAACACTCAATCAAGGTGAGCGTAGGAGGGGAGAAGCGGGACCTGGAGATAGAAGTAGTCTATTTTACCCC  
AACTACAACATTAATGGGAAAAAAGAAGCAGGAATTCCTGAATTTTATGACTATGACGTTGCCCTGATCAAGCTC  
AAGAATAAGCTGAAATATGGCCAGACTATCAGGCCCATTTGTCTCCCCTGCACCGAGGGAACAACCTCGAGCTTTG  
AGGCTTCCTCCAACCTACCCTTGCCAGCAACAAAAGGAAGAGCTGCTCCCTGCACAGGATATCAAAGCTCTGTTT  
GTGTCTGAGGAGGAGAAAAAGCTGACTCGGAAGGAGGTCTACATCAAGAATGGGGATAAGAAAGGCAGCTGTGAG  
AGAGATGCTCAATATGCCCCAGGCTATGACAAAGTCAAGGACATCTCAGAGGTGGTCACCCCTCGGTTCCCTTTGT  
ACTGGAGGAGTGAGTCCCTATGCTGACCCCAATACTTGCAGAGGTGATTCTGCGGGCCCTTGATAGTTTACAAG  
AGAAGTCGTTTCATTCAAGTTGGTGTAAATCAGCTGGGGAGTAGTGGATGTCTGCAAAAACCAGAAGCGGCAAAAG  
CAGGTACCTGCTCACGCCCGAGACTTTTACATCAACCTCTTTCAAGTGTGCTGCTGCTGAAGGAGAACTCCAA  
GATGAGGATTTGGGTTTTCTATTAAGGGGTTTTCTGCTGGACAGGGGCGTGGGATTGAATTAAACAGCTGCGACA  
AC

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**FIGURE 1960**

MGSNLSPLCLMPFILGLLSGGVTTTPWSLAQPQGSCLLEGVEIKGGSFRLLOEGQALEYVCPSGFYPPVQTRT  
CRSTGWSSTLKTQDQKTVRKAECRAIHCPRPHDFENGEYWPRSPYYNVSDAISFHCYDGYTLRGSANRTCQVNGR  
WSGQTAICDNGAGYCSNPGIPIGTRKVG SQYRLSDSVTYHCSRGLTLRGSQRRTCQEGGSWSGTEPSCQDSFMYD  
TPQEVAAEFLSSLTETIEGVDAEDGHGPGEQQKRKIVLDPGSMNIYLVLDGSDSIGASNFTGAKKCLVNLIIEKV  
ASYGVKPRYGLVTYATYPKIWVKVSEADSSNADWVTQQLNEINYEDHKLKSGTNTKKALQAVYSMMSWPDDVPPE  
GWNRTRHVILMTDGLHNMGGDPITVIDEIRDLLYIGKDRKNPREDYLDVYVFGVGPLVNQVNINALASKKDNEQ  
HVFKVKDMENLEDVFYQMIDESQSLSLCGMVWEHRKGT DYHKQPWQAKISVIREPSKGHESCMGAVVSEYFVLTA  
HCFTVDDKEHSIKVSVGGEKRDLEIEVVLFHPNYNINGKKEAGIPEFYDYDVALIKLKNKLKYGQTIRPICLPCT  
EGTTRALRLPFTTTCQQQKEELLPAQDIKALFVSEEEKLTRKEVYIKNGDKKGGSCERDAQYAPGYDKVKDISEV  
VTPRFLCTGGVSPYADPNTCRGDSGGPLIVHKRSRFIQVGVISWGVVDVCKNQKRQKQVPAHARDFHINLFQVLP  
WLKEKLQDEDLGFL

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**FIGURE 1961**

GGTCCCAAGGCTTTCCAGAGCGAACCTGTGCGGCTGCAGGCACCGGCGTGTGAGTTTCCGGCGTTCCGAAGGAC  
TGAGCTCTTGTCGCGGATCCCGTCCGCCGTTTCCAGCCCCAGTCTCAGAGCGGAGCCCACAGAGCAGGGCACCG  
GCATGGCCAAAGCCGCGCGATCGGCATCGACCTGGGCACCACTACTCCTGCGTGGGGGTGTTCCAACACGGCA  
AGGTGGAGATCATCGCCAACGACCAGGGCAACCGCACCAACCCCAAGTACGTGGCCTTCACGGACACCGAGCGGC  
TCATCGGGGATGCGGCCAAGAACCAGGTGGCGCTGAACCCGAGAACACCGTGTTTGACGCGAAGCGGCTGATCG  
GCCGCAAGTTCGGCGACCCGGTGGTGCAGTCGGACATGAAGCACTGGCCTTTCAGGTGATCAACGACGGAGACA  
AGCCCAAGGTGCAGGTGAGCTACAAGGGGGAGACCAAGGCATTCTACCCCGAGGAGATCTCGTCCATGGTGCTGA  
CCAAGATGAAGGAGATCGCCGAGGCGTACCTGGGCTACCCGGTGACCAACGCGGTGATCACCGTGCCGGCCTACT  
TCAACGACTCGCAGCGCCAGGCCACCAAGGATGCGGGTGTGATCGCGGGGCTCAACGTGCTGCGGATCATCAACG  
AGCCACAGGCCGCCGCTACGCGCTGGACAGAACGGGCAAGGGGGAGCGCAACGTGCTCATCTTTGACC  
TGGGCGGGGGCACCTTCGACGTGTCCATCCTGACGATCGACGACGGCATCTTCGAGGTGAAGGCCACGGCCGGGG  
ACACCCACCTGGGTGGGGAGGACTTTGACAACAGGCTGGTGAACCACTTCGTGGAGGAGTTCAAGAGAAAACACA  
AGAAGGACATCAGCCAGAACAAGCGAGCCGTGAGGCGGCTGCGCACCGCCTGCGAGAGGGGCCAAGAGGACCCTGT  
CGTCCAGCACCCAGGCCAGCCTGGAGATCGACTCCCTGTTTGAGGGCATCGACTTCTACACGTCCATCACCAGGG  
CGAGGTTTCGAGGAGCTGTGCTCCGACCTGTTCCGAAGCACCTGGAGCCCGTGAGAAAGGCTCTGCGCGACGCCA  
AGCTGGACAAGGCCCAGATTACGACCTGGTCTGGTGGGGGCTCCACCCGCATCCCCAAGGTGCAGAAGCTGC  
TGCAGGACTTCTTCAACGGGCGCGACCTGAACAAGAGCATCAACCCCGACGAGGCTGTGGCCTACGGGGCGGCGG  
TGCAGGCGGCCATCCTGATGGGGGACAAGTCCGAGAACGTGCAGGACCTGCTGCTGCTGGACGTGGCTCCCTGT  
CGCTGGGGCTGGAGACGGCCGGAGGCGTGATGACTGCCCTGATCAAGCGCAACTCCACCATCCCCACCAAGCAGA  
CGCAGATCTTCACCACCTACTCCGACAACCAACCCGGGGTGCTGATCCAGGTGTACGAGGGCGAGAGGGCCATGA  
CGAAAGACAACAATCTGTTGGGGCGCTTCGAGCTGAGCGGCATCCCTCCGGCCCCCAGGGGCGTGCCCCAGATCG  
AGGTGACCTTCGACATCGATGCCAACGGCATCCTGAACGTACGGCCACGGACAAGAGCACCGGCAAGGCCAGCA  
AGATCACCATCACCAACGACAAGGGCCGCCTGAGCAAGGAGGAGATCGAGCGCATGGTGCAGGAGGCGGAGAAGT  
ACAAAGCGGAGGACGAGGTGCAGCGCGAGAGGGTGTGAGCCAAGAACGCCCTGGAGTCCTACGCCTTCAACATGA  
AGAGCGCCGTGGAGGATGAGGGGCTCAAGGGCAAGATCAGCGAGGCGGACAAGAAGAAGGTTCTGGACAAGTGTC  
AAGAGGTGATCTCGTGGCTGGACGCCAACACCTTGCCGAGAAGGACGAGTTTGAGCACAAGAGGAAGGAGCTGG  
AGCAGGTGTGTAACCCCATCATCAGCGGACTGTACCAGGGTGCCGGTGGTCCCGGGCCTGGGGGCTTCGGGGCTC  
AGGGTCCCAAGGGAGGGTCTGGGTGAGGCCCTACCATTGAGGAGGTGGATTAGGGGCCCTTTGTTCTTTAGTATGT  
TTGTCTTTGAGGTGGACTGTTGGGACTCAAGGACTTTGCTGCTGTTTTCTATGTATTCTGCTTCAGCTCTTT  
GCTGCTTCACTTCTTTGTAAAGTTAAGTTGTAACCTGATGGTAATTAGCTGGCTTCATTATTTTTGTAGTACAAC  
CGATATGTTTATTAGAATTCTTTGCATTTAATGTTGATACTGTAAGGGTGTTCGTTCCCTTTAAATGAATCAAC  
ACTGCCACCTTCTGTACGAGTTTGTGTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCTTGGCGAAAACACTACAAAGGC  
TGGAATGTATGTTTTTATAATTTGTTTATTTAAATATGAAAAATAAAATGTTAACTTT

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**FIGURE 1962**

MAKAAAIGIDLGTTYSCVGVFQHKGVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVALNPQNTVFDKRLIG  
RKFGDPVVQSDMKHWPFQVINDGDKPKVQVSYKGETKAFYPEEISSMVLTKMKEIAEAYLGYPVTNAVITVPAYF  
NDSQRQATKDAGVIAGLNVLRINEPTAAAIAYGLDRTGKGERNVLIFDLGGGTFDVSILTIDDGIFEVKATAGD  
THLGGEDFDNRLVNHVFVEEFKRKHKKDISQNKRAVRLRTACERAKRTLSSSTQASLEIDSLFEGIDFYTSITRA  
RFEELCSDLFRSTLEPVEKALRDAKLDKAQIHDLVLVGGSTRIPKVQKLLQDFFNGRDLNKSINPDEAVAYGAAV  
QAAILMGDKSENVQDLLLLDVAPLSLGLETAGGVMTALIKRNSTIPTKQTQIFTTYSDNQPGVLIQVYEGERAMT  
KDNLLGRFELSGIPPAPRGVPQIEVTFDIDANGILNVTATDKSTGKASKITITNDKGRLSKEEIERMVQEAKEY  
KAEDVQRERVSAKNALESYAFNMKSAVEDEGLKGKISEADKKKVLDKCQEVISWLDANTLAEKDEFEHKRKELE  
QVCNPIISGLYQGAGGPGPGGFGAQQGPKGSGSGPTIEEVD

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**FIGURE 1963**

GCTGCTGCGACAGTCCACTACCTTTTTTCGAGAGTGA CTCCC GTTGTCCCAAGGCTTCCCAGAGCGAACCTGTGCG  
GCTGCAGGCAACCGCGCGTTCGAGTTTCCGGCGTCCGGAAGGACCGAGCTCTTCTCGCGGATCCAGTGTTCCGTTT  
CCAGCCCCCAATCTCAGAGCCGAGCCGACAGAGAGCAGGGAACCGGCATGGCCAAAGCCGCGGCGATCGGCATCG  
ACCTGGGCACCACTACTCTGCGTGGGGGTGTTCCAACACGGCAAGGTGGAGATCATCGCCAACGACCAGGGCA  
ACCGCACCACCCCACTACGTGGCCTTACGGACACCGAGCGGCTCATCGGGGATGCGGCCAAGAACCAGGTGG  
CGCTGAACCCGCAAGAACACCGTGTGTTGACGCAAGCGGCTGATCGGCCGCAAGTTCGGCGACCCGGTGGTGCAGT  
CGGACATGAAGCACTGGCCTTTCCAGGTGATCAACGACGGAGACAAGCCCAAGGTGCAGGTGAGCTACAAGGGGG  
ACACCAAGGCATTCTACCCGAGGAGATCTCGTCCATGGTGCTGACCAAGATGAAGGAGATCGCCGAGGCGTACC  
TGGGCTACCCGGTGACCAACGCGGTGATCACCGTGCCGGCCTACTTCAACGACTCGCAGCGCCAGGCCACCAAGG  
ATGCGGGTGTGATCGCGGGGCTCAACGTGCTGCGGATCATCAACGAGCCACGGCCGCCATCGCCTACGGCC  
TGGACAGAACGGGCAAGGGGAGCGCAACGTGCTCATCTTTGACCTGGGCGGGGGCACCTTCGACGTGTCCATCC  
TGACGATCGACGACGGCATCTTCGAGGTGAAGGCCACGGCCGGGGACACCCACCTGGGTGGGGAGGACTTTGACA  
ACAGGCTGGTGAACCACTTCGTGGAGGAGTTCAAGAGAAAACACAAGAAGGACATCAGCCAGAACAAGCGAGCCG  
TGAGGCGGCTGCGCACCGCCTGCGAGAGGGCCAAAGAGGACCCTGTCTCCAGCACCCAGGCCAGCCTGGAGATCG  
ACTCCCTGTTTGAGGGCATCGACTTCTACACGTCCATCACCAGGGCGAGGTTGAGGAGCTGTGCTCCGACCTGT  
TCCGAAGCACCCCTGGAGCCCGTGGAGAAGGCTCTGCGCGACGCCAAGCTGGACAAGGCCAGATTACGACCTGG  
TCCTGGTCGGGGGCTCCACCCGCATCCCCAAGGTGCAGAAGCTGCTGCAGGACTTCTTCAACGGGCGCGACCTGA  
ACAAGAGCATCAACCCCGACGAGGCTGTGGCCTACGGGGCGCGGTGCAGGCGGCCATCCTGATGGGGGACAAGT  
CCGAGAACGTGCAGGACCTGCTGCTGCTGGACGTGGCTCCCCTGTGCTGGGGCTGGAGACGGCCGGAGGCGTGA  
TGACTGCCCTGATCAAGCGCAACTCCACCATCCCCACCAAGCAGACGCGAGATCTTACCACCTACTCCGACAACC  
AACCCGGGGTGTGATCCAGGTGTACGAGGGCGAGAGGGCCATGACGAAAGACAACAATCTGTTGGGGCGCTTCG  
AGCTGAGCGGCATCCCTCCGGCCCCCAGGGGCGTGCCCCAGATCGAGGTGACCTTCGACATCGATGCCAACGGCA  
TCCTGAACGTACGGCCACGGACAAGAGCACCGGCAAGGCCAACCAAGATCACCATCACCACGACAAGGGCCGCC  
TGAGCAAGGAGGAGATCGAGCGCATGGTGCAGGAGGCGGAGAAGTACAAAGCGGAGGACGAGGTGCAGCGCGAGA  
GGGTGTGAGCCAAGAAGCCCTGGAGTCTACGCCCTTCAACATGAAGAGCGCCGTGGAGGATGAGGGGCTCAAGG  
GCAAGATCAGCGAGGCCGACAAGAAGAAGGTGCTGGACAAGTGTCAAGAGGTGATCTCGTGGCTGGACGCCAACA  
CCTTGCCGAGAAGGACGAGTTTGAGCACAAAGAGGAAGGAGCTGGAGCAGGTGTGTAACCCCATCATCAGCGGAC  
TGTACCAGGGTGCCGGTGGTCCCGGCCCTGGGGGCTTCGGGGCTCAGGGTCCCAAGGGAGGGTCTGGGTGAGGCC  
CCACCATTGAGGAGGTAGATTAGGGGCCTTTCCAAGATTGCTGTTTTTTGTTTTGGAGCTTCAAGACTTTGCATTT  
CCTAGTATTTCTGTTTGTGAGTTCTCAATTTCTGTGTTTGCAATGTTGAAATTTTTTGGTGAAGTACTGAACCTT  
GCTTTTTTCCGGTTTCTACATGCAGAGATGAATTTATACTGCCATCTTACGACTATTTCTTTTAAATACAC  
TTAACTCAGGCCATTTTTTAAGTTGGTTACTTCAAAGTAAATAAACTTTAAAATTCAAGTGA

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**FIGURE 1964**

MAKAAAIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVALNPQNTVFDKRLIG  
RKFGDPVVQSDMKHWPVQVINDGDKPKVQVSYKGDTKAFYPEEISSMVLTKMKEIAEAYLGYPVTNAVITVPAYF  
NDSQRQATKDAGVIAGLNLVRIINEPTAAAIAYGLDRTGKGERNVLIFDLGGGTFDVSILTIDDGIFEVKATAGD  
THLGGEDFDNRLVNHFVEEFKRKHKKDISQNKRAVRLRTACERAKRTLSSSTQASLEIDSLFEGIDFYTSITRA  
RFEELCSDLFRSTLEPVEKALRDAKLDKAQIHDLVLVGGSTRIPKVQKLLQDFFNGRDLNKSINPDEAVAYGA  
QAAILMGDKSENVQDLLLLDVAPLSLGLETAGGVMTALIKRNSTIPTKQTQIFTTYSQNPQGVLIQVYEGE  
KDNLLGRFELSGIPPAPRGVPQIEVTFDIDANGILNVTATDKSTGKANKITITNDKGRLSKEEIERMVQEA  
KAEDEVQREVSARKNALESYAFNMKSAVEDEGLKGKISEADKKKVLDKCQEVISWLDANTLAEKDEF  
EHKRKELE  
QVCNPIISGLYQGAGGPGPGGFGAQPCKGSGSGPTIEVD

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**FIGURE 1965**

GGCTTCCTCCTCCCCCTCTACTCTACCCAGCTTGCGCTCCCCAGCCGCAAGTCGGCCGCGCTTTGCCCGTCAGCGC  
TTGGAGCTTTCTGCGTCGCTTCCCGCTGCGCCTGCGCGGTCCCGCCTCGCCCCACGCGCGGGCTCGCGCTTCGGT  
TTCCCCAGACCTGCTCGCAGCACCCCTGCTGTCTTCCCGGTCCGGCCCCGCTGCCCCGCGGCGCCAGCACCAATGCTCT  
TCTATTCTTTTTTCAAGTCCCTTGTGGGCAAGGATGTGGTTCGTGGAATAAAGAATGACCTGAGCATCTGTGGAA  
CCCTCCATTCTGTGGATCAGTATCTCAACATCAAATAACTGACATCAGTGTACAGACCCTGAGAAATACCCCTC  
ACATGTTATCAGTGAAGAACTGCTTCATTGCGGGCTCAGTGGTCCGATACGTGCAGCTGCCAGCAGATGAGGTGC  
ACACACAGTTGCTACAGGATGCGGCAAGGAAGGAAGCCCTGCAGCAGAAACAGTATGATGGCTCCTCCTCCTCTTCC  
CCTCCCTCTTTCATTGGTGACCCATAACCCCAAGTCCCAGCCCAGAACCCCTAACCCCAATACTTGAAGGGGT  
TTGTTTTTTTACTAATGATGGTTTTGTGGTTTTTTTTTAAGGGATGAGTGGATGAGAGGAGTAATAGGGAACAGC  
TATCCTCTCTTGAGAAGGGGAGGATAAGTAGGCTGGGAACTTCAAAGCCTTCCCAGTCCCCAGCACCTGCCTTT  
CTCACTACTTCTCTGGAGATGGTAGGAGAGTTTCCTAGGTCTTCCAGGGCAGCATGTGATTTCATTTGGGGATGG  
AAGGAATCTGTCCCGCATCGGGAATAAAATTTATGATGC



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**FIGURE 1966**

MLFYSEFFKSLVGKDVVVELKNDLSICGTLHSVDQYLNKLTDISVTDPEKYPHMLSVKNCFIRGSVVRYVQLPAD  
EVDLTQLLQDAARKEALQQKQ

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**FIGURE 1967A**

GTCACAAAGGGGGGAACACGTGGGCGCCGGCTGCCGGGGCGGCGATCTTAGGGAACTAGGGTCACCTGGAGAGCC  
GCCCCACCGTCTCTGCCCCGCTCGACTCCTCCGCCCCGGGCGCTCGGCCGGTCCAGCCGCGGGCCGGCGCCTGGCTGT  
GAGGTGGATTCCCGGGCCAGTCTGACCATCTCCCTCCAGTTTTTCCACTTCGTTTCGACCTTCTCATAACTATGT  
CCACCCTCTACGTCTCCCTCAGCCAGATGCCTTCCCCAGCCTCCGAGCCCTCATAGCCGCTCGCTATGGGGAGG  
CTGGGGAGGGTCCCGGATGGGGAGGAGCCACCCCCGCATCTGTCTCCAGCCACCCCCGACTAGCAGGACTCCCT  
TTCCCCACCCCGCTGCCGGCCCTGGAGCAGGGGCCCGGTGGGCTCTGGGTGTGGGGGGCCACGGCTGTGGCCC  
AGCTGCTGTGGCCAGCAGGCTGGGGGGCCCCAGGGGGCAGCCGGGCGGCTGTCTTGTCCAACAGTGGGTCACTT  
ACGCCGACACGGAGTTAATACCAGCTGCCTGTGGAGCAACGCTGCCGGCCCTGGGACTCCGAAGCTCGGCCCAGG  
ACCCCCAGGCTGTGCTGGGGGGCCCTGGGCAGGGCCCTGAGCCCTTGGAGGAGTGGCTTCGGCTGCACACCTACT  
TGGCCGGGGAGGCCCCCACTCTGGCTGACCTGGCGGCTGTACAGCCTTGCTGCTGCCTTTCCGATACGTCTTAG  
ACCCACCTGCCCCGCCGATCTGGAATAATGTGACTCGCTGGTTTTGTACGTGTGTCCGGCAGCCAGAATTCCGAG  
CCGTGCTAGGAGAAGTGGTTCTATACTCAGGAGCCAGGCCTCTCTCATCAGCCAGGCCCCGAGGCTCCTGCC  
TCCCAAAGACAGCTGCTCAGCTCAAGAAAGAGGCAAGAAACGGGAGAAGCTAGAGAAATTCCAACAGAAGCAGA  
AGATCCAACAGCAGCAGCCACCTCCAGGGGAGAAGAAACCAAAACCAGAGAAGAGGGAGAAACGGGATCCTGGGG  
TCATTACCTATGACCTCCCAACCCCCACCCGGGAAAAGAAAGATGTGAGTGGCCCCATGCCCGACTCCTACAGCC  
CTCGGTATGTGGAGGCTGCCTGGTACCCTTGGTGGGAGCAGCAGGGCTTCTTCAAGCCAGAGTATGGGCGTCTTA  
ATGTGTGACAGCAAA1CCCCGAGGTGTCTTCATGATGTGCATCCACCCCCCAATGTGACAGGCTCCCTGCACC  
TGGGCCATGCACTACCAACGCCATCCAGGACTCCCTGACTCGATGGCACCGCATGCGTGGGGAGACCACCTGT  
GGAACCTGGCTGTGACCATGCAGGTATTGCCACCCAGGTGGTGGTGGAGAAGAAGCTATGGCGTGACAGGGAC  
TGAGCCGGCACCAGCTGGGCCGCGAGGCCTTTCTACAGGAAGTCTGGAAGTGAAGGAGGAGAAAGGTGACCGGA  
TTTACCACAGTTGAAGAAGCTTGGCAGCTCCTTGGACTGGGATCGAGCCTGTTTACCATGGACCCTAAACTCT  
CAGCAGCTGTGACAGAGCCTTTGTCCGGCTTACAGAGGAAGGCATCATCTATCGCAGTACCCGCTTGTAACT  
GGTCTGCACCCTCAACTCCGCCATCTCTGACATTGAGGTGGATAAGAAGGAGCTGACAGGTGCGACCCCTGCTCT  
CCGTGCCTGGCTACAAGGAGAAGGTGGAGTTCGGGGTCTCTGCTCTCTTGCCTATAAGGTCCAAGGCTCAGATA  
GCGACGAGGAGGTGGTGGTGGCAACAACCTCGGATCGAGACAATGCTGGGAGATGTGGCTGTAGCTGTGACCCCCA  
AAGATACCAGATAACCAGCACCTGAAGGGGAAGAACGTGATCCACCCATTCTGTCTCGGAGCCTTCCCATTGTCT  
TCGATGAATTTGTGGACATGGACTTTGGCACAGGTGCTGTGAAGATCACCCCCGCACATGACCAAAATGACTATG  
AAGTTGGGCAGCGGCACGGGCTGGAGGCCATCAGCATCATGGACTCCCGGGGGGCCCTCATCAATGTGCCTCCGC  
CTTCTCTGGGCTGCCAGGTTTGGAGCCAGGAAAGCGGTGCTGGTGGCGCTGAAGGAGCGGGGACTGTTCCGTG  
GCATTGAGGACAACCCCATGGTGGTGCCACTTTGCAACCGGTGCAAGGACGTGGTAGAGCCTCTGCTGCGGCCGC  
AGTGGTACGTTGCTGCGGGGAGATGGCCAGGCTGCCAGCGCCGCTGTGACTCGGGGTGACCTCCGCATCCTGC  
CTGAGGCCCATCAGCGCACATGGCATGCCTGGATGGACAACATCCGGGAGTGGTGCATTTCCAGGCAGCTGTGGT  
GGGGCCATCGCATCCAGCCTACTTTGTCACTGTGACCCAGCGGTGCCCCCTGGGGAGGACCTGATGGGC  
GGTACTGGGTGAGTGGACGCAATGAGGCGGAGGCCCGGAGAAGGCAGCCAAGGAGTTCGGAGTGTCCCTGACA  
AGATCAGTCTCCAGCAAGATGAGGATGTATTGGATACCTGGTTCTCTCTGGCCTCTTCCCCTTATCCATTTTGG  
GCTGGCCCAACCAGTCAGAAGACCTGAGTGTGTTCTACCCCGGGACACTGCTGGAGACCGGTCTATGACATCCTCT  
TCTTCTGGGTGGCCCGGATGGTTCATGCTGGGCCTGAAGCTCACGGGCAGGCTGCCCTTTAGAGAGGTCTACCTCC  
ATGCCATCGTGCGAGATGCTCACGGCCGGAAGATGAGCAAGTCTCTAGGCAATGTATCGATCCCTGGATGTCA  
TCTATGGAATCTCCCTGCAGGGCCTCCACAACCAGCTGCTGAACAGCAACCTGGATCCCAGCGAGGTGGAGAAGG  
CCAAAGAAGGGCAGAAAGCTGACTTCCAGCGGGGATTCTGAATGTGGCACCGATGCTCTCCGTTTGGATTAT  
GTGCCTACATGTCCAGGGTCGTGACATCAACCTGGATGTGAACCGGATACTGGGTTACCGCCACTTCTGCAACA  
AGCTCTGGAATGCCACCAAGTTTGCCCTTCGTGGCCTTGGGAAGGGTTTTGTGCCCTCACCCACCTCCAGCCCCG  
GAGGCCATGAGAGCCTGGTGGACCGCTGGATCCGCAGCCGCCTGACAGAGGCTGTGAGGCTCAGCAATCAAGGCT  
TCCAGGCCTACGACTTCCCGGCCGTCACCACTGCCAGTACAGCTTCTGGCTCTATGAGCTCTGTGATGTCTACT  
TGGAGTGCCTGAAACCTGTACTGAATGGGGTGGACCAGGTGGCAGCTGAGTGTGCCCGCCAGACCCTGTACACTT  
GCCTGGACGTTGGCCTGCGGCTGCTCTCACCTTTCATGCCCTTCGTGACGGAGGAGCTGTTCAGAGGCTGCCCC  
GGAGGATGCCGCAAGCTCCCCCTAGCCTCTGTGTTACCCCTACCCGGAGCCCTCAGAGTGTCTCTGGAAGGACC  
CCGAGGCAGAAGCCGCCCTTGAGCTGGCGCTAAGCATCACGCGAGCCGTGCGCTCCCTGCGGGCCGACTACAACC

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**FIGURE 1967B**

TCACCCGGATCCGGCCTGACTGTTTCCTGGAAGTGGCGGATGAGGCCACGGGCGCCCTGGCATCGGCGGTGTCGG  
GCTACGTGCAGGCCCTGGCCAGCGCAGGTGTGGTGGCTGTTCTGGCCCTGGGGGCTCCCGCCCCCAGGGTTGCG  
CTGTGGCTCTGGCTTCTGATCGCTGCTCCATCCACCTGCAGCTTCAGGGGCTGGTGGACCCTGCACGGGAGCTGG  
GCAAGCTGCAAGCCAAGCGAGTTGAGGCCAGCGGCAGGCCAGCGTCTGCGGGAACGCCGTGCTGCCTCGGGCT  
ATCCTGTCAAGGTGCCGCTCGAAGTCCAGGAGGCAGATGAAGCCAAGCTCCAACAGACAGAAGCAGAGCTCAGGA  
AGGTGGATGAGGCCATCGCCCTATTCCAGAAGATGCTGTGAATCCACCACCCAGCTTCACCCCTCACCCCCAGCGG  
CTCACCATGGGGATGGCAGCAATAAAATATTTTCCACAAAA

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**FIGURE 1968**

MSTLYVSPHPDAFP SLRALIAARYGEAGEGPGWGGAHPRICLQPPPTSRTPFPPRLPALEQQPGGLWVWGATAV  
AQLLWPAGLGGPGGSRAAVLVQQWVSADTELIPAACGATLPALGLRSSAQDPQAVLGALGRALSPLEEWRLHT  
YLAGAPTLADLA AVTALLLPFRYVLDPPARRIWNVNTRWFVTCVRQPEFRAVLGEVVLYSGARPLSHQPGPEAP  
ALPKTAAQLKKEAKKREKLEKFQQKQKIQQQQPPPGEEKPKPEKREKRDPGVITYDLPTPPGEKKDVSGPMPDSY  
SPRYVEAAWYPWWEQQGFFKPEYGRPNVSAANPRGVFMMCIPPPNVTGSLHLGHALTNAIQDSLTRWHRMRGETT  
LWNPGCDHAGIATQVVVEKKLWREQGLSRHQLGREAFLEQEVWKWKEEKGDRIYHQLKKLGSSLDWDRACFTMDPK  
LSAAVTEAFVRLHEEGIIYRSTRLVNWSCTLNSAISDIEVDKKELTGRTLLSVPGYKEKVEFGVLVSFAYKVQGS  
DSDEEVVATTRIETMLGDVAVAVHPK DTRYQHLKGK NVIHPFLSRSLPIVFDEFVDMDFGTGAVKITPAHDQND  
YEVGQRHGLEAISIMDSRGALINVPPFFLGLPRFEARKAVLVALKERGLFRGIEDNPMVVPLCNRSKDVVEPLL  
PQWYVRCGEMAQAASAAVTRGDLRILPEAHQRTWHAWMDNIREWCISRQLWWGHRIPAYFVTVSDPAVPPGEDPD  
GRYWVSGRNEAEAREKAAKEFGVSPDKISLQQDEVDLDTWFSSGLFPLSILGWPNQSEDLSVFYPGTLLETGHD  
LFFWVARMVMLGLKLTGRLPFREYVLHAIVRDAHGRKMSKSLGNVIDPLDVIYGISLQGLHNQLLSNLDPSEVE  
KAKEGQKADFPAGIPECGTDALRFGLCAYMSQGRDINLDVNRILGYRHFCNKLWNATKFALRGLGKGFVPSPTSQ  
PGGHESLVDRWIRSLTEAVRLSNQGFQAYDFPAVTTAQYSFWLYELCDVYLECLKPVLNGVDQVAAECARQTL  
TCLDVGLRLLSPFMPFVTEELFQRLPRRMPQAPPSLCVTPYPEPSECSWKDPEAEAALELALSITRAVRSR  
ADY NLTRIRPDCFLVAD EATGALASAVSGYVQALASAGVAVLALGAPAPQGC AVALASDRCSIHLQLQGLVDPARE  
LGKLQAKRVEAQRQAQRLRERRAASGYPVKVPLEVQEAD EAKLQOTEAE LRKVDEAIALFQKML

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**FIGURE 1969**

GCGGCTCTCTGATCCAGCCCGGGAGAGGACCGAGCTGGAGGAGCTGGGTGTGGGGTGCGTTGGGCTGGTGGGGAG  
GCCTAGTTTGGGTGCAAGTAGGTCTGATTGAGCTTGTGTTGTGCTGAAGGGACAGCCCTGGGTCTAGGGGAGAGA  
GTCCCTGAGTGTGAGACCCGCCTTCCCCGGTCCCAGCCCTCCCAAGTTCCCCAGGGACGGCCACTTCCTGGTCC  
CCGACGCAACCATGGCTGAAGAACAACCGCAGGTGGAATTGTTTCGTGAAGGCTGGCAGTGATGGGGCCAAGATTG  
GGAAGTGGCCATTCTCCAGAGACTGTTTCATGGTACTGTGGCTCAAGGGAGTCACCTTCAATGTTACCACCGTTG  
ACACCAAAAGGCGGACCGAGACAGTGCAGAAGCTGTGCCCAGGGGGGGCAGCTCCCATTCCTGCTGTATGGCACTG  
AAGTGCACACAGACACCAACAAGATTGAGGAATTTCTGGAGGCAGTGCTGTGCCCTCCCAGGTACCCCAAGCTGG  
CAGCTCTGAACCCCTGAGTCCAACACAGCTGGGCTGGACATATTTGCCAAATTTTCTGCCTACATCAAGAATTCAA  
ACCCAGCACTCAATGACAATCTGGAGAAGGGACTCCTGAAAGCCCTGAAGGTTTTAGACAATTACTTAACATCCC  
CCCTCCCAGAAGAAGTGGATGAAACCAGTGCTGAAGATGAAGGTGTCTCTCAGAGGAAGTTTTTGGATGGCAACG  
AGCTCACCCCTGGCTGACTGCAACCTGTTGCCAAAGTTACACATAGTACAGGTGGTGTGTAAGAAGTACCGGGGAT  
TCACCATCCCCGAGGCCTTCCGGGGAGTGCATCGGTACTTGAGCAATGCCCTACGCCCGGGAAGAATTCGCTTCCA  
CCTGTCCAGATGATGAGGAGATCGAGCTCGCCTATGAGCAAGTGGCAAAGGCCCTCAAATTAAGCCCCCTCCTGGGA  
CTCCCTCAACCCCTCCATTTTCTCCACAAAGGCCCTGGTGGTTTCCACATTGCTACCCAATGGACACACTCCAA  
AATGGCCAGTGGGCAGGGAATCCTGGAGCACTTGTTCGGGATGGTGTGGTGGGAAGAGGGGATGAGGGAAAGAAA  
TGGGGGCGCTGGGTGAGATTTTATTGTGGGGTGGGTGAGTAGGACAACATATTTAGTAATAAAATACAGAAT  
AAAAATCAAGTGTTTTTAAAAAAA

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**FIGURE 1970**

MAEEQPQVELFVKAGSDGAKIGNCPFSQRLFMVLWLKGVTFNVTTVDTKRRTETVQKLCPPGGQLPFLLYGTEVHT  
DTNKIEEFLEAVLCPPRYPKLAALNPESNTAGLDIFAKFSAYIKNSNPALNDNLEKGLLKALKVLDNYLTSPLE  
EVDETSAEDEGVSQRKFLDGNELTLADCNLLPKLHIVQVVCKKYRGFTIPEAFRGVHRYLSNAYAREEFASCPD  
DEEIELAYEQVAKALK

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**FIGURE 1971**

ATGAGCAGCTCAGAGGAGGTGTCCTGGATTTCCTGGTTCTGTGGGCTCCGTGGCAATGAATTCTTCTGTGAAGTG  
GATGAAGACTACATCCAGGACAAATTTAATCTTACTGGACTCAATGAGCAGGTCCCTCACTACCGACAAGCTCTA  
GACATGATCTTGGACCTGGAGCCTGATGAAGAACTGGAAGACAACCCCAACCAGAGTGACCTGATTGAGCAGGCA  
GCCGAGATGCTTTATGGATTGATCCACGCCCGCTACATCCTTACCAACCGTGGCATCGCCCAGATGTTGGAAAAG  
TACCAGCAAGGAGACTTTGGTTACTGTCCTCGTGTGTACTGTGAGAACCAGCCAATGCTTCCCATTGGCCTTTCA  
GACATCCCAGGTGAAGCCATGGTGAAGCTCTACTGCCCCAAGTGCATGGATGTGTACACACCCAAGTCATCAAGA  
CACCATCACACGGATGGCGCCTACTTCGGCACTGGTTTCCCTCACATGCTCTTCATGGTGCATCCCGAGTACCGG  
CCCAAGAGACCTGCCAACCAGTTTGTGCCAGGCTCTACGGTTTCAAGATCCATGCGATGGCCTACCAGCTGCAG  
CTCCAAGCCGCCAGCAACTTCAAGAGCCCAGTCAAGACGATTGCTTGA

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**FIGURE 1972**

MSSSEEVSWISWFCGLRGNEFFCEVDEDIQDKFNLTGLNEQVPHYRQALDMILDLEPDEELEDNPNQSDLIEQA  
AEMLYGLIHARYILTNRGIAQMLEKYQQGDFGYCPRVYCENQPMLPIGLSDIPGEAMVKLYCPKCMDVYTPKSSR  
HHHTDGAYFGTGFPHMLFMVHPEYRPRPANQFVPRLYGFKIHAMAYQLQLQAASNFKSPVKTIR



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**FIGURE 1973A**

TAGTGCGACGCACGCAGGCGTAGTACGGTCCCCCGGGCGACAGCGGTGGCGGCTCCTCGGGGTGCTCGGCTCCCT  
CCCACCTAGGCCCGGCCCGGCGGCGACTCGCCCTCAGAACTCACTGTTTGGGGCTGCGGACTTTCTCGTCGTGCC  
CCACAAAAGTAAAGCTTGGGGACCTGGGGGGAGCCGGAAGTATCGCTTCGAGATCCCCAAATACTATCGGGGAAA  
CGGAAGTGGCCGTCGGTGGCAGGTTTGGGGGAGACCGGAAGTGACGAGACCTGTGGGCCATGGAGCCTAATGATA  
GTACCAGTACCGCTGTGGAGGAGCCTGACAGCTTGGAGGTGTTGGTGAAGACCTTGGACTCTCAAACCTCGTACCT  
TTATTGTGGGGGCCAGATGAATGTAAAGAGTTTAAGGAGCACATTGCTGCCTCTGTGAGCATCCCATCTGAAA  
AACAACGGCTCATTTACCAGGGACGAGTTCTGCAAGATGATAAGAAGCTTCAGGAATACAATGTTGGGGGAAAGG  
TTATCCACCTGGTGGAACGGGCTCCTCCTCAGACTCACCTCCCTTCTGGGGCATCTTCTGGGACGGGGTCTGCCT  
CAGCCACTCATGGTGGGGGATCCCCCCTGGTACTCGGGGGCTGGGGCCTCTGTTTCATGACCGGAATGCCAACA  
GCTATGTCATGGTGGAACTTCAATCTTCTAGTGACGGCTCTGCTGTGGATGTTACATCAACATGGAACAGG  
CCCCGATTGAGAGTGAAGCCCGGGTACGGCTGGTGTGCTCAGCACATGATCAGGGATATACAGACCTTACTAT  
CCCGGATGGAGACTCTCCCTACCTTCACTGTGAGGAGGGCCCCAACCGCAGCACAGTCAGCCGCCCCCGCAGC  
CACCGGCTGTGACCCCGGAGCCAGTAGCCTTGAAGCTCTCAAACATCAGAACAGTTGAAAGTGAAGCACCTCCCC  
GGGAGCCCCATGGAGGCAGAAGAAGTGGAGGAGCGTGCCCCAGCCAGAACCCGGAGCTCACTCCTGGCCCCAGCCC  
CAGCGGGCCCCAACACCTGCCCCGGAACAAATGCACCCAAACCATCCTTCCCCTGCGGAGTATGTCGAGGTGCTCC  
AGGAGCTACAGCGGCTGGAGAGTCGCTCCAGCCCTTCTTGACGCGTACTACGAGGTCTGGGTGCTGCTGCCA  
CCACGGACTACAATAACAATCAGAGGGCCGGGAGGAGGATCAGCGGTTGATCAACTGGTAGGGGAGAGCCTGC  
GACTGCTGGGCAACACCTTTGTTGCACTGTCTGACCTGCGCTGCAATCTGGCCTGCACGCCCCCAGCACCTGC  
ATGTGGTCCGGCCTATGTCTCACTACACCACCCCATGGTGCTCCAGCAGGCAGCCATTCCCATACAGATCAATG  
TGGGAACCACTGTGACCATGACAGGAAATGGGACTCGGCCCCCCCCAACTCCCAATGCAGAGGCACCTCCCCCTG  
GTCTGGGCAGGCCTCATCCGTGGCTCCGTCTTCTACCAATGTGAGTCTCAGCTGAGGGGGCTCCCCGCCAG  
GTCCAGCTCCCCCGCCAGCCACCAGCCACCCGAGGGTTCATCCGGATTTCACCAGAGTGTGGAACCCGTGGTCA  
TGATGCACATGAACATTCAAGATTCTGGCACACAGCCTGGTGGTGTTCGAGTGTCTCCACTGGCCCCCTGGGAC  
CCCCCTGGTTCATGGCCAAACCTGGGACAGCAGGTGCCAGGCTTCCCAACAGCTCCAACCCGGGTGGTGATTGCC  
GGCCCACTCCTCCACAGGCTCGGCCTTCCCATCCTGGAGGGCCCCCAGTCTCTGGGACACTGCAGGGCGCCGGTC  
TGGGTACCAATGCCTCGTTGGCCAGATGGTGAGCGGCCTTGTGGGGCAGCTTCTTATGCAGCCAGTCTTGTGG  
CTCAGGGGACCCAGGTATGGCTCCACCGCCAGCCCTGCCACTGCTTCTGCCAGTGTGGCACCACCAACACAG  
CTACCACAGCTGGCCCCGCTCCTGGGGGGCTGCCAGCCTCCACCCACCCCTCAACCCTCCATGGCTGATCTTC  
AGTTCTCTCAGCTTCTGGGGAACCTGCTAGGGCCTGCAGGGCCAGGGGCTGGAGGGCCTGGTGTGGCTTCTCCCA  
CCATCACTGTGGCGATGCTTGGTGTCCCTGCCTTTCTCCAAGGCATGACTGACTTCTTGAGGCAACACAGACAG  
CCCCCTCCACCACCCACCTCCTCCACCCCAACACCTGCCCCAGAGCAGCAGACCATGCCCCACAGGCTCCC  
CTTCTGGTGGCGCAGGGAGTCTGGAGGCTGGGTCTTGAGAGCCTGTACCGGAGTTTTTACCTCAGTGGTGC  
AGGGTGTGCTCAGCTCCCTGCTGGGCTCCCTGGGGGCTCGGGCTGGCAGCAGTGAAGTATTGCTGCCTTCATAC  
AACGCCTCAGTGGATCCAGCAACATCTTTGAGCCTGGAGCTGATGGGGCCCTGGATTCTTTGGGGCCTTGCTTT  
CTCTTCTGTGCCAGAACTTCTCTATGGTGGACGTAGTGATGCTTCTCCATGGGCATTTCCAGCCACTACAACGGC  
TCCAGCCCCAGCTGCGATCCTTCTTCCACCAGCACTACCTGGGTGGTCAGGAGCCACACCCAGTAACATCCGGA  
TGGCAACCCACACATTGATCACGGGGCTAGAAGAGTATGTGCGGGAGAGTTTTCTTGGTGCAGGTTTCAGCCAG  
GTGTGGACATCATCCGACAAACCTGGAATTTCTCCAAGAGCAGTTTAATAGCATTGCTGCGCATGTGCTGCATT  
GCACAGATAGTGGATTTGGGGCCCGGTTGCTGGAGTTGTGTAAACCAAGGCCTGTTTGAATGCCTGGCCCTAAACC  
TGCATGCTTGGGGGGACAGCAGATGGAGCTTGTGCTGTATCAATGGCCGAATTCGTGCTATGTCTCGTGGGG  
TGAATCCCTCCTTGGTGAGCTGGCTGACCACTATGATGGGACTGAGGCTTCAGGTGGTACTGGAGCACATGCCTG  
TAGGCCCTGATGCCATTCTCAGATACGTTGCGAGGGTTGGTGATCCCCCAGCCACTTCTGAGGAGCCAATGG  
AAGTTCAGGGAGCAGAAAGAGCTTCCCCTGAGCCTCAGCGGGAGAATGCTTCCCAGCCCCCTGGAACAACAGCAG  
AAGAGGCCATGTCCCAGGTCCACCTCCTGCTCCTGAGGGGGGCTCCCGGGATGAACAGGATGGAGCTTCAGCTG  
AGACAGAACCTTGGGCAGCTGCAGTCCCCCAGAATGGGTCCCTATTATCCAGCAGGACATTTCAGAGCCAGCGGA  
AGGTGAAACCGCAGCCCCCTCTGAGTGATGCCTACCTCAGTGGTATGCCTGCCAAGAGACGCAAGACGATGCAGG  
GTGAGGGCCCCCAGCTGCTTCTCTCAGAGGCTGTGAGCCGGGCAGCTAAGGCAGCCGGAGCTCGGCCCCCTGACGA  
GCCCCGAGAGCCTGAGCCGGGACCTGGAGGCACCAAGAGGTTTCAGGAGAGCTACAGGCAGCAGCTCCGGTCTGATA

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**FIGURE 1973B**

TACAAAAACGACTGCAGGAAGACCCCAACTACAGTCCCCAGCGCTTCCCCAATGCCCAGCGGGCCTTTGCTGATG  
ATCCTTAGCTCTTTGCTCTATGGCCCTTCCTCATCAGGGGACCGTTTCCCCCTCTTCCTTCACAGTATTTAAGA  
AATAAAAGTCGGATTTTCTGGC

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**FIGURE 1974**

MEPNQSTSTAVEEPDSLEVLVKTLDSTQTRTFIVGAQMNKVEFKEHIAASVSIPSEKQRLIYQGRVLQDDKKLQEY  
NVGGKVIHLVERAPPQTHLPSGASSGTGSASATHGGGSPPGTRGPGASVHNRNANSYVMVGTFNLPDGSADVH  
INMEQAPIQSEPRVRLVMAQHMIRDIQTLLSRMETLPYLQCRGGPQPQHSQPPPQPPAVTPEPVALSSQTSEFVE  
SEAPPREPMEAEVEERAPAQNPELTPGPAPAGPTPAPETNAPNHPSPAEYVEVLQELQRLSRLQPFLLQRYEY  
LGAAATTDYNNNHEGREEDQRLINLVGESLRLLGNTFVALSDLRNLACTPPRHLHVVRPMSHYTTPMVLQQAII  
PIQINVGTTVTMTGNGTRPPPTPNAEAPPPGPGQASSVAPSSTNVESSAEGAPPPGPAAPPATSHPRVIRISHQS  
VEPVMMHMNIQDSGTQPGGVPSAPTGPLGPPGHGQTLGQQVPGFPTAPTRVVIARPTPPQARPSHPGGPPVSGT  
LQGAGLGTNASLAQMVSGLVGQLLMQPVLAQGTGPMAPPPAPATASASAGTTNTATTAGPAPGGPAQPPPTPQP  
SMADLQFSQLLGNLLGPAGPGAGGPGVASPTITVAMPGVPAFLQGMTDFLQATQTAPPPPPPPPPPPPPAPEQQTM  
PPPGSPSGGAGSPGGLGLESLSPEFFTSVVQGVLSLLGSLGARAGSSESIAAFIQRLSGSSNIFEPGADGALGF  
FGALLSLLCQNF SMVDVVMLLHGHFQPLQRLQPQLRSFFHQHYLGGQEPTPSNIRMATHTLITGLEEYVRESFSL  
VQVQPGVDIIRTNLEFLQEQFNSIAAHVLHCTDSGFGARLLELCNQGLFECLALNLHCLGGQQMELAAVINGRIR  
RMSRGVNP SLVSWLTMMGLRLQVVLEHMPVGPDAILRYVRRVGDPPQPLPEEPMEVQGAERASPEPQRENASPA  
PGTTAEAMSRGPPPAPEGGSRDEQDGASAETEPWAAVPPPEWVP I IQQDIQSQRKVKPQPPLSDAYLSGMPAKR  
RKTMQGEGPQLLLSEAVSRAAKAAGARPLTSPELSRDLEAPEVQESYRQQLRSDIQKRLQEDPNYSPQRFPAQ  
RAFADDP

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**FIGURE 1975A**

TAGTGCGACGCACGCAGGCGTAGTACGGTCCCCCGGGCGACAGCGGTGGCGGCTCCTCGGGGTGCTCGGCTCCCT  
CCCACCTAGGCCGGCCCCGGCCCCGACTCGCCCTCAGAACTCACTGTTTGGGGCTGCGGACTTTCTCGTCGTGCC  
CCACAAAAGTAAAGCTTGGGGACCTGGGGGGAGCCGGAAGTATCGCTTCGAGATCCCCAAATACTATCGGGGAAA  
CGGAAGTGCCGCTCGGTGGCAGGTTTGGGGGAGACCGGAAGTGACGAGACCTGTGCGCCATGGAGCCTAATGATA  
GTACCAGTACCGCTGTGGAGGAGCCTGACAGCTTGGAGGTGTTGGTGAAGACCTTGGACTCTCAAACCTCGTACCT  
TTATTGTGGGGGCCAGATGAATGTAAAGAGTTTAAGGAGCACATTGCTGCCTCTGTGAGCATCCCATCTGAAA  
AACAACGGCTCATTTACCAGGGACGAGTTCTGCAAGATGATAAGAAGCTTCAGGAATACAATGTTGGGGGAAAGG  
TTATCCACCTGGTGAACGGGCTCCTCCTCAGACTCACCTCCCTTCTGGGGCATCTTCTGGGACGGGCTGTGCT  
CAGCCACTCATGGTGGGGGATCCCCCCTGGTACTCGGGGGCTGGGGCTCTGTTTCATGACCGGAATGCCAACA  
GCTATGTCATGGTTGGAACCTTCAATCTTCTAGTGACGGCTCTGCTGTGGATGTTACATCAACATGGAACAGG  
CCCCGATTCAGAGTGAGCCCCGGGTACGGCTGGTGTGCTCAGCACATGATCAGGGATATACAGACCTTACTAT  
CCCGGATGGAGTGTGAGGAGGGCCCCAACCGCAGCACAGTCAGCCGCCCCCGCAGCCACCGGCTGTGACCCGG  
AGCCAGTAGCCTTGAGCTCTCAAACATCAGAACCAGTTGAAAGTGAAGCACCTCCCCGGGAGCCCATGGAGGCAG  
AAGAAGTGAGGAGCGTGCCCCAGCCAGAACCCGGAGCTCACTCCTGGCCAGCCCCAGCGGGCCCAACACCTG  
CCCCGAAACAAATGCACCCAACCATCCTTCCCCTGCGGAGTATGTGAGGTGCTCCAGGAGCTACAGCGGCTGG  
AGAGTCGCTCCAGCCCTTCTTGACGCGCTACTACGAGGTCTGGGTGCTGCTGCCACCACGGACTACAATAACA  
ATCAGAGGGCCGGGAGGAGGATCAGCGGTTGATCAACTTGGTAGGGGAGAGCCTGCGACTGCTGGGCAACACCT  
TTGTTGCACTGTCTGACCTGCGCTGCAATCTGGCCTGCACGCCCCACGACACCTGCATGTGGTCCGGCCTATGT  
CTCACTACACCACCCCATGGTGTCTCAGCAGGCAGCCATTCCCATACAGATCAATGTGGGAACCACTGTGACCA  
TGACAGGAAATGGGACTCGGCCCCCCCCAACTCCCAATGCAGAGGCACCTCCCCCTGGTCTGGGACGGCCTCAT  
CCGTGGCTCCGTCTTCTACCAATGTGAGTCTCAGCTGAGGGGGCTCCCCCGCCAGGTCCAGCTCCCCCGCCAG  
CCACCAGCCACCCGAGGGTCTATCCGATTTCCCACCAGAGTGTGGAACCCGTGGTTCATGATGCACATGAACATTC  
AAGATTCTGGCACACAGCCTGGTGGTGTTCAGAGTGTCTCCACTGGCCCCCTGGGACCCCCCTGGTTCATGGCCAAA  
CCCTGGGACAGCAGGTGCCAGGCTTCCCAACAGCTCCAACCCGGGTGGTGTATGCCCCGGCCCACTCCTCCACAGG  
CTCGGCCTTCCCATCCTGGAGGGCCCCAGTCTCTGGGACACTGCAGGGCGCCGGTCTGGGTACCAATGCCTCGT  
TGGCCCAGATGGTGAGCGGCCCTTGTGGGGCAGCTTCTTATGCAGCCAGTCTTGTGGCTCAGGGGACCCAGGTA  
TGGCTCCACCGCCAGCCCCGCTGCTTCTGCCAGTGTGGCACCACCAACACAGCTACCACAGCTGGCCCCG  
CTCCTGGGGGGCTGCCAGCCTCCACCCACCCCTCAACCCCTCATGGCTGATCTTCAGTTCTCTCAGCTTCTGG  
GGAACCTGCTAGGGCCTGCAGGGCCAGGGGCTGGAGGGTCTGGTGTGGCTTCTCCACCATCACTGTGGCGATGC  
CTGGTGTCCCTGCCTTTCTCCAAGGCATGACTGACTTCTTGAGGCAACACAGACAGCCCCCTCCACCACCCCA  
CTCCTCCACCCCAACACCTGCCCCAGAGCAGACCATGCCCCACCAGGCTCCCCTTCTGGTGGCGCAGGGA  
GTCTGGAGGCCCTGGGTCTTGAGAGCCTGTACCCGAGTTTTTTACCTCAGTGGTGCAGGGTGTGCTCAGCTCCC  
TGCTGGGCTCCCTGGGGGCTCGGGCTGGCAGCAGTGAAAGTATTGCTGCCTTCATACAACGCCTCAGTGGATCCA  
GCAACATCTTTGAGCCTGGAGCTGATGGGGCCCTTGGATTCTTTGGGGCCTTGCTTTCTCTTGTGCCAGAACT  
TCTCTATGGTGGACGTAGTGATGCTTCTCCATGGGCATTTCCAGCCACTACAACGGCTCCAGCCCCAGCTGCGAT  
CCTTCTTCCACCAGCACTACCTGGGTGGTCAGGAGCCACACCCAGTAACATCCGGATGGCAACCCACACATTGA  
TCACGGGGCTAGAAGAGTATGTGCGGGAGAGTTTTTTCCTTGGTGCAGGTTTCAGCCAGGTGTGGACATCATCCGA  
CAAACCTGGAATTTCTCCAAGAGCAGTTTAATAGCATTGCTGCGCATGTGCTGCATTGCACAGATAGTGGATTTG  
GGGCCCCGTTGCTGGAGTTGTGTAACCAAGGCCTGTTTGAATGCCTGGCCCTAAACCTGCACTGCTTGGGGGGAC  
AGCAGATGGAGCTTGTGCTGTTATCAATGGCCGAATTGCTCGTATGTCTCGTGGGGTGAATCCCTCCTTGGTGA  
GCTGGCTGACCACTATGATGGGACTGAGGCTTTCAGGTGGTACTGGAGCACATGCCTGTAGGCCCTGATGCCATT  
TCAGATACGTTTCGAGGGTTGGTGTATCCCCCAGCCACTTCTGAGGAGCCAATGGAAGTTTCAGGGAGCAGAAA  
GAGCTTCCCCTGAGCCTCAGCGGGAGAATGCTTCCCCAGCCCCGGAACAACAGCAGAAGAGGCCATGTCCCGAG  
GTCCACCTCCTGCTCCTGAGGGGGGCTCCCGGGATGAACAGGATGGAGCTTCAGCTGAGACAGAACCTTGGGCAG  
CTGCAGTCCCCCAGAATGGGTCCCTATTATCCAGCAGGACATTTCAGAGCCAGCGGAAGGTGAAACCGCAGCCCC  
CTCTGAGTGTATGCCTACCTCAGTGGTATGCCTGCCAAGAGACGCAAGACGATGCAGGGTGAAGGGCCCCAGCTGC  
TTCTCTCAGAGGCTGTGAGCCGGGCAGCTAAGGCAGCCGGAGCTCGGCCCTGACGAGCCCCGAGAGCCTGAGCC  
GGGACCTGGAGGCACCAGAGGTTTCAGGAGAGCTACAGGCAGCAGCTCCGGTCTGATATACAAAACGACTGCAGG

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**FIGURE 1975B**

AAGACCCCAACTACAGTCCCCAGCGCTTCCCCAATGCCCAGCGGGCCTTTGCTGATGATCCTTAGCTCTTTGCTC  
TATGGCCCTTCCTCATCAGGGGACCGTTTCCCCCCTCTTCCTTCACAGTATTTAAGAAATAAAAGTCGGATTTTT  
CTGGC

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**FIGURE 1976**

MEPNDSTSTAVEEPDSLEVLVKTLDSTRTFIVGAQMNVKEFKEHIAASVSIPSEKQRLIYQGRVLQDDKKLQEY  
NVGGKVIHLVERAPPQTHLPSGASSGTGSASATHGGGSPPGTRGPGASVHDRNANSYVMVGTFLNPSDGSADVH  
INMEQAPIQSEPRVRLVMAQHMIRDIQTLLSRMECRGGPQPQHSQPPPQPPAVTPEPVALSSQTSEPVESEAPPR  
EPMEAEVEERAPAQNPELTPGPAPAGPTPAPETNAPNHPSPA EYVEVLQELQRLSRLQPFLLQRYEVLGAAAT  
TDYNNNHEGREEDQRLINLVGESLRLLGNTFVALSDLRCNLACTPPRHLHVVRPMSHYTTPMVLQQAAPIQIN  
GTTVTMTGNGTRPPPTPNAEAPPPGPGQASSVAPSSTNVESSAEGAPPPGPAPPPATSHPRVIRISHQSVEPVVM  
MHMNIQDSGTQPGGVPSAPTGPLGPPGHGQTLGQQVPGFPTAPTRVVIARPTPPQARPSHPGGPPVSGTLQGAGL  
GTNASLAQMVSGLVGQLMQPVLVAQGTGMAPPPAPATASASAGTTNTATTAGPAPGGPAQPPPTPQPSMADLQ  
FSQLLGNLLGPAGPGAGGSGVASPTITVAMPGVPAFLQGMDFLQATQTAPPPPPPPPPPPPAEQQTMPPPGSP  
SGGAGSPGGLGLESLSPEFFTTSVVQGVLSLLGSLGARAGSSSIAAFIQRLSGSSNIFEPGADGALGFFGALLS  
LLCQNFMSVDVVMLLHGHFQPLQRLQPQLRSFFHQHYLGGQEPTPSNIRMATHTLITGLEEYVRESFSLVQVQPG  
VDIIRTNLEFLQEQFNSIAAHVLHCTDSGFGARLLELCNQGLFECLALNLHCLGGQOMELAAVINGRIRMSRGV  
NPSLVSWLTTMMGLRLQVVLEHMPVGPDAILRYVRRVGDPPQPLPEEPMEVQGAERASPEPQRENASPAPGTAE  
EAMSRGPPPAPEGGSRDEQDGASAETEPWAAAVPPEWVPIIQQDIQSQRKVKQPPLSDAYLSGMPAKRRKTMQG  
EGPQLLLSEAVSRAAKAAGARPLTSPESLSRDLEAPEVQESYRQQLRSDIQKRLQEDPNYSPQRFNQAQAFADD  
P

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**FIGURE 1977A**

TAGTGCGACGCACGCAGGCGTAGTACGGTCCCCGGGCGACAGCGGTGGCGGCTCCTCGGGGTGCTCGGCTCCCT  
CCCACCTAGGCCGGCCCCGGCCCCGACTCGCCCTCAGAACTCACTGTTTGGGGCTGCGGACTTTCTCGTCGTGCC  
CCACAAAAGTAAAGCTTGGGGACCTGGGGGGAGCCGGAAGTATCGCTTCGAGATCCCCAAATACTATCGGGGAAA  
CGGAAGTGGCCGTCGGTGGCAGAGACCTGTGGGCCATGGAGCCTAATGATAGTACCAGTACCCTGTGGAGGAGC  
CTGACAGCTTGGAGGTGTTGGTGAAGACCTTGGACTCTCAAACCTCGTACCTTTATTTGTGGGGGCCAGATGAATG  
TAAAAGAGTTTAAGGAGCACATTGCTGCCTCTGTGACGATCCCATCTGAAAAACAACGGCTCATTACAGGGAC  
GAGTTCTGCAAGATGATAAGAAGCTTCAGGAATACAATGTTGGGGGAAAGTTATCCACCTGGTGGAACGGGCTC  
CTCCTCAGACTCACCTCCCTTCTGGGGCATCTTCTGGGACGGGGTCTGCCTCAGCCACTCATGGTGGGGGATCCC  
CCCCTGGTACTCGGGGGCCTGGGGCCTCTGTTTCATGACCGGAATGCCAACAGCTATGTCATGGTTGGAACCTTCA  
ATCTTCCTAGTGACGGCTCTGCTGTGGATGTTACATCAACATGGAACAGGCCCCGATTAGAGTGAGCCCCGGG  
TACGGCTGGTGATGGCTCAGCACATGATCAGGGATATACAGACCTTACTATCCCGGATGGAGTGTGAGGAGGGC  
CCCAACCGCAGCACAGTCAGCCGCCCCCGCAGCCACCGGCTGTGACCCCGAGCCAGTAGCCTTGAGCTCTCAA  
CATCAGAACCAGTTGAAAGTGAAGCACCTCCCCGGGAGCCCATGGAGGCAGAAGAAGTGGAGGAGCGTGCCCCAG  
CCCAGAACCCGAGCTCACTCCTGGCCAGCCCCAGCGGGCCCAACACCTGCCCGGAAACAATGCACCCAACC  
ATCCTTCCCTGCGGAGTATGTGAGGTGCTCCAGGAGCTACAGCGGCTGGAGAGTCGCCTCCAGCCCTTCTTGC  
AGCGCTACTACGAGGTTCTGGGTGCTGCTGCCACCACGGACTACAATAACAATCACGAGGGCCGGGAGGAGGATC  
AGCGGTTGATCAACTTGGTAGGGGAGAGCCTGCGACTGCTGGGCAACACCTTTGTTGCACTGTCTGACCTGCGCT  
GCAATCTGGCCTGCACGCCCCACGACACCTGCATGTGGTCCGGCCTATGTCTCACTACACCACCCCATGGTGC  
TCCAGCAGGCAGCCATTCCCATACAGATCAATGTGGGAACCACTGTGACCATGACAGGAAATGGGACTCGGCCCC  
CCCCAATCCCAATGCAGAGGCACCTCCCCCTGGTCTGGGAGGCCTCATCCGTGGCTCCGTCTTCTACCAATG  
TCGAGTCTCAGCTGAGGGGGCTCCCCCGCCAGGTCCAGCTCCCCCGCCAGCCACCAGCCACCCGAGGGTCATCC  
GGATTTCCACCAGAGTGTGGAACCCGTGGTCATGATGCACATGAACATTCAAGATTCTGGCACACAGCCTGGTG  
GTGTTCCGAGTGCTCCCACTGGCCCCCTGGGACCCCTGGTCATGGCCAAACCCCTGGGACAGCAGGTGCCAGGCT  
TCCCAACAGCTCCAACCCGGGTGGTGATTGCCCGGCCCACTCCTCCACAGGCTCGGCCTTCCCATCCTGGAGGGC  
CCCCAGTCTCTGGGACACTGCAGGGCGCCGGTCTGGGTACCAATGCCCTCGTTGGGCCAGATGGTGAGCGGCCTTG  
TGGGGCAGCTTCTTATGCAGCCAGTCCTTGTGGCTCAGGGGACCCAGGTATGGCTCCACCGCCAGCCCTGCCA  
CTGCTTCTGCCAGTGCTGGCACCAACAACAGCTACCACAGCTGGCCCCGCTCCTGGGGGGCCTGCCAGCCTC  
CACCCACCCCTCAACCCTCCATGGCTGATCTTCAGTTCTCTCAGCTTCTGGGGAACCTGCTAGGGCCTGCAGGGC  
CAGGGGCTGGAGGGTCTGGTGTGGCTTCTCCACCATCACTGTGGCGATGCCTGGTGTCCCTGCCTTTCTCCAAG  
GCATGACTGACTTCTTGAGGCAACACAGACAGCCCTCCACCACCCCACTCCTCCACCCCACTACCTGCC  
CAGAGCAGCAGACCATGCCCCACCAGGCTCCCTTCTGGTGGCGCAGGGAGTCTGGAGGCCTGGGTCTTGAGA  
GCCTGTACCCGAGTTTTTTTACCTCAGTGGTGCAGGGTGTGCTCAGCTCCCTGCTGGGCTCCCTGGGGGCTCGGG  
CTGGCAGCAGTGAAAGTATTGCTGCCTTCATACAACGCCTCAGTGGATCCAGCAACATCTTTGAGCCTGGAGCTG  
ATGGGGCCCTTGGAATCTTTGGGGCCTTGCTTTCTCTCTGTGCCAGAACTTCTCTATGGTGGACGTAGTGATGC  
TTCTCCATGGGCATTTCCAGCCACTACAACGGCTCCAGCCCCAGCTGCGATCCTTCTCCACCAGCACTACCTGG  
GTGGTCAGGAGCCCAACCCAGTAACATCCGGATGGCAACCCACACATTGATCACGGGGCTAGAAGAGTATGTGC  
GGGAGAGTTTTTCTTGGTGCAGGTTTCCAGCAGGTGTGGACATCATCCGGACAAACCTGGAATTTCTCCAAGAGC  
AGTTTAATAGCATTGCTGCGCATGTGCTGCATTGCACAGATAGTGGATTGGGGCCCGTTGCTGGAGTTGTGTA  
ACCAAGGCCTGTTTGAATGCCTGGCCCTAAACCTGCACTGCTTGGGGGGACAGCAGATGGAGCTTGCTGCTGTTA  
TCAATGGCCGAATTCGTCTGATGTCTCGTGGGGTGAATCCCTCCTTGGTGAGCTGGCTGACCACTATGATGGGAC  
TGAGGCTTCAGGTGGTACTGGAGCACATGCCTGTAGGCCCTGATGCCATTCTCAGATACGTTCCGAGGGTTGGTG  
ATCCCCCCCAGCCACTTCTGAGGAGCCAATGGAAGTTCAGGGAGCAGAAAGAGCTTCCCCTGAGCCTCAGCGGG  
AGAATGCTTCCCCAGCCCTGGAACAACAGCAGAAGAGGCCATGTCCCGAGGTCCACCTCCTGCTCCTGAGGGGG  
GCTCCCGGGATGAACAGGATGGAGCTTCAGCTGAGACAGAACCTTGGGCAGCTGCAGTCCCCCAGAATGGGTCC  
CTATTATCCAGCAGGACATTAGAGCCAGCGGAAGGTGAAACCGCAGCCCCCTCTGAGTGATGCCTACCTCAGTG  
GTATGCCTGCCAAGAGACGCAAGACGATGCAGGGTGGAGGGCCCCCAGCTGCTTCTCTCAGAGGCTGTGAGCCGGG  
CAGCTAAGGCAGCCGGAGCTCGGCCCCCTGACGAGCCCCGAGAGCCTGAGCCGGGACCTGGAGGCACCAGAGGTTT  
AGGAGAGCTACAGGCAGCAGCTCCGGTCTGATATACAAAACGACTGCAGGAAGACCCCACTACAGTCCCCAGC

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**FIGURE 1977B**

GCTTCCCAATGCCCAGCGGGCCTTTGCTGATGATCCTTAGCTCTTTGCTCTATGGCCCTTCCTCATCAGGGGAC  
CGTTTCCCCCTCTTCCTTCACAGTATTTAAGAAATAAAAGTCGGATTTTCTGGCAAAAAAAAAAAAAAAAAAAAA  
AAAA



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**FIGURE 1978**

MEPNDSTSTAVEEPDSLEVLVKTLDSQTRTFIVGAQMNKVEFKEHIAASVSIPSEKQRLIYQGRVLQDDKKLQEY  
NVGGKVIHLVERAPPQTHLPSGASSGTGSASATHGGGSPPGTRGPGASVHNRNANSYVMVGTFNLPSDGSADVH  
INMEQAPIQSEPRVRLVMAQHMIRDIQTLISRMECRGGPQPQHSQPPPQPPAVTPEPVALSSQTSEPVESEAPPR  
EPMEAEVEERAPAQNPELTPGPAPAGTPAPETNAPNHPSPA EYVEVLQELQRLESRLQPFLQRYEVLGAAAT  
TDYNNNHEGREEDQRLINLVGESLRLLGNTFVALSDLRCNLACTPPRHLHVVRPMSHYTTPMVLQQAAP IQINV  
GTTVTMTGNGTRPPPTPNAEAPPPGPGQASSVAPSSTNVESSAEGAPPPGPAPPPATSHPRVIRISHQSVEPVVM  
MHMNIQDSGTQPGGVPSAPTGPLGPPGHGQTLGQQVPGFPTAPTRVVIARPTPPQARPSHPGGPPVSGTLQGAGL  
GTNASLAQMVSGLVGQLLMQPVLVAQGTGPMAPPPAPATASASAGTTNTATTAGPAPGGPAQPPPTPQPSMADLQ  
FSQLLGNLLGPAGPGAGGSGVASPTITVAMPGVPAFLQGMTDFLQATQTAPPPPPPPPPPPPAPEQQTMPPPGSP  
SGGAGSPGGLGLESLSPEFFTSVVQGVLSLLGSLGARAGSSESIAAFIQRLSGSSNIFEPGADGALGFFGALLS  
LLCQNFMSVDVVMLLHGHFQPLQRLQPQLRSFFHQHYLGGEPTPSNIRMATHTLITGLEEYVRESFSLVQVQPG  
VDIIRTNLEFLQE QFN SIAAHVLHCTDSGFGARLLELCNQGLFECLALNLHCLGGQQMELAAVINGRIRMSRGV  
NPSLVSWLTMMGLRLQVVLEHMPVGPDAILRYVRRVGDPPQPLPEEPMEVQGAERASPEPQRENASPA PGTTAE  
EAMSRGPPPAPEGGSRDEQDGASAETEPWAAAVPPEWVPIIQQDIQSQRKVKPQPPLSDAYLSGMPAKRRKTMQG  
EGPQLLLSEAVSRAAKAAGARPLTSPESLSRDLEAPEVQESYRQQLRSDIQKRLQEDPNYSPQRFPAQRAFADD  
P

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**FIGURE 1979A**

CCCTAGGCCCCGGGTCCCGGATCCCCGCGCACCCGGCCAGGCTCTGGCACGTTTTGGGGGAGGTGCCTGCAGGACC  
CAACATACTCAATGAGCTTCCAGCGCAATGTCGATCGCTCGGGGCCGACTGCCAAGGGAAAGGATGGAAAGAAG  
TATTCTCGCTCAACCTGTTTGATACGTATAAGGGCAAGTCCTTAGAGATCCAGAAACCCGCTGTTGCCCTCGC  
CATGGCCTGCAGAGTCTCGGGAAAGTTGCCATTGCCCGGCGTATGCCACCTCCAGCCAACCTTCCAAGCCTGAAA  
GCCGAGAACAAAGGCAATGACCCCAATGTCTCACTAGTGCCAAAAGACGGAACAGGATGGGCAAGCAAAACAGGAG  
CAGTCCGACCCCAAGAGTTCCGATGCCTCAACCGCTCAGCCGCCGGAATCGCAGCCACTGCCGGCTTCACAGACG  
CCTGCCTCCAACCAGCCGAAACGACCCCCAGCAGCCCCGAGAACACTCCTTTGGTTCCAAGCGGGGTAAAGTCC  
TGGGCACAAGCCAGCGTCACCCATGGAGCACATGGAGATGGTGGAAAGGGCATCAAGCCTACTGTCACGATTCTCT  
CGAGAGGAATTTCCGACCCTGCAGGCGGTGGCGACCAGGACAAGGCTGCCAAGGAAAGGGAGTCTGCCGAACAG  
TCGTCTGGGGCCCGGACCAAGCCTCCGCCCCCAAATTCTACAACCTGGAGGGACGGAGGTGGGCGTGGCCCTGAT  
GAGCTGGAGGGCCCGGACTCCAACTTCATCATGGTCATGATCCCCGGGTGGGCTACAGCCTTCAGGCCACCC  
CAGTTCCCTCCCTACCGCGGAATGATGCCGCCTTTCATGTATCCCCATATCTCCCGTTCCCTCCGCCCTATGGA  
CCCCAGGGGCCCTTACCGATACCCACTCCTGATGGGGCCAGCGTTCCTCCCGTGTGGCGGGCCCCCGAGGCTCA  
GGGCCACCAATGCGCTTAGTAGAGCCTGTGGGTCTCCCTCTATTCTCAAAGAGGATAATCTCAAAGAGTTTGAT  
CAGTTGGATCAGGAGAATGATGATGGTTGGGCAGGGGCCATGAAGAGGTTGACTACACTGAAAAGCTCAAGTTC  
AGCGATGAGGAAGATGGGCGAGACTCTGATGAGGAGGGAGCTGAGGGCCACAGGGATTCCCAATCAGCTTCTGGT  
GAGGAACGGCCCCCTGAAGCAGATGGCAAAAAGGGCAACTCCCCAACAGCGAACCGCCCACTCCTAAGACGGCC  
TGGGCAGAAACCTCTCGGCCTCCAGAGACAGAGCCGGGACCTCCTGCCCCAAAGCCTCCCTACCCCTGGGGAC  
TACCCAGATCGTGGGGTCTCTCCCTGCAAGCCCCCAGCACCTGAAGATGAGGATGAGGCATGGCGGCAGCGACGA  
AAGCAGTCGTCTATCTGAGATTTCCCTGGCAGTGGAGCGGGCCCGGCGAÇGGCGAGAAGAAGAGGAGCGGCGCATG  
CAAGAAGAGCGCGGGCAGCCTGTGCTGAGAAGCTCAAGCGACTCGATGAAAAGTTTGGGGCACCTGACAAGCGG  
CTCAAAGCAGAGCCTGCTGCCCCACCTGCTGCCCCCTTCTACCCAGCTCCACCACCTGCAGTCCCTAAAGAACTC  
CCTGCACCTCCAGCTCCACCTCCAGCATCAGCCCCAACACCAGAGAAAGAACCTGAAGAGCCAGCACAGGCCCCCT  
CCTGCCCCAATCTACTCTACTCCAGGTGTGGCTGCGGCTCCCACTCTGGTGAGTGGTGGTGGCAGTACCAGTAGC  
ACCAGCAGTGGCAGCTTCGAAGCCAGCCCAGTGGAAACCACAACCTGCCCTCAAAGAGGGTCTTGAACCACCAGAA  
GAGGTTCTCTCCTACCAACCCCCAGTTCCAAAGGTGGAACCCAAGGGTGATGGGATTGGTCCCACCCGCCAG  
CCCCCTAGTCAGGGCTTGGGCTACCCCAAATATCAGAAGTCGTGCTCCTCGTTTCCAGCGGCAGCAGCAGGAG  
CAGTCTCTGAAGCAGCAGCAGCAGCACCAGTGGCAGCAGCATCAACAGGGCTCTGCCCCCTCTACCCCACTGCCC  
CCATCACCACCACAGCCTGTGACCCTGGGGGCTGTGCCAGCTCCACAGGCTCCACCCCGCCCCCAAGGCCCTG  
TACCCAGGTGCTCTGGGGCCGGCCCCACCCATGCCCCCAATGAACTTTGATCCCCGATGGATGATGATTCTCTCT  
TATGTGGACCCCGGCTCCTCCAGGGTCGTCCCCCTCTAGACTTCTACCTCCTGGTGTGCATCCCTCTGGCCTA  
GTTCCCCGAGAGCGTTTCAAGCAGTGGGGGCTCAAGCTCAGAGCCATTTGACCGTCATGCACCTGCTATGTTACGG  
GAACGGGGCACTCCACCGGTGGATCCAAAGTTGGCCTGGGTAGGAGATGCTTTCACCGCCACACCCGCTGAACCC  
CGCCCACTTACCTCACCTCTGCGCCAGGCTGCGGATGAGGATGACAAGGGGATGAGGAGCGAGACTCCTCCAGTA  
CCTCCCCCACCACCCTATCTGGCCAGTTATCCAGGCTTCTCTGAGAATGGAGCCCCTGGGGCCCCCAATCTCTCGC  
TTTCTCTGGAGGAACCAGGGCCCCGTCCACTCCCCTGGCCCCCAGGCAGTGATGAAGTGGCCAAGATACAACT  
CCACCACCAAGAAGGAGCCCCCTAAGGAGGAGACTGCACAGCTGACGGGGCCAGAAGCAGGCCGAAAGCCTGCC  
CGCGGAGTCGGGAGTGGAGGCCAGGGCCCCCACCACCACGCAGAGAGAGTCCGACAGAGACCCGCTGGGGCCCT  
CGTCCAGGGAGCAGTCGTCTGGAATCCCTCCAGAGGAGCCAGGGGCCCCACCCCGCGGGGCTGGGCCTATAAAG  
AAACCTCCACCACCTACAAAAGTAGAAGAGCTGCCTCCCAAGCCCCCTCGAACAGGGGGATGAAACCCCCAAACCC  
CCAAAGCCAGACCCACTCAAGATAACCAAGGGGAAGCTAGGGGGCCCCAAGGAGACCCACCCAATGGAATCTT  
TCCCCTGCCCCAAGGCTTCGGAGGGACTATTCTGATGAAAGAGTGGGTCTTACCTCTTGCCGGGGTCTGGGGCCGA  
GGCGAGTATTTTGCCAGAGGGAGGGGTTTTCGGGGGACCTATGGGGGACGAGGGCGGGGAGCCCGAAGCCGGGAA  
TTCCGCAGTTACCGAGAGTTTCGAGGAGATGATGGGCGTGGAGGTGGGACAGGGGGACCAACCACCTCTGCT  
CCCCGAGGCCGCACTGCCAGCGAGACACGGAGCGAGGGTTTCAAGATGAGGAAAATCCCAAGCGGCGCCGGCAG  
CGGGGCTCAGAAACAGGCAGCGAGACCCATGAGAGTGATCTGGCTCCTTCAGACAAGGAGGCTCCACACCCAAAG  
GAGGGAACACTACCCAGGTCCCTCTCGCTCCCCCACCACCAGGAGCCCCACCTTCACCAGCCCCAGCCGCTTC  
ACTGCCCGGGGTGGGCGAGTCTTCACTCCAGAGGGGTGCCATCTCGCCGGGGCCGAGGAGGAGGGAGGCCCTT

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**FIGURE 1979B**

CCTCAAGTTTGCCAGGCTGGAGCCCTCCAGCCAAGTCTCTGGCTCCCAAGAAACCTCCCACAGGCCCTTTGCCA  
CCAAGTAAGGAGCCTTTGAAAGAGAAGTTGATCCAGGGCCTCTGTCCCTGTGGCGCGGAGGCAGCAATGGA  
GGTAGCAATGTGGGCATGGAAGATGGGGAGCGACCCCGAAGGAGGCGACATGGGAGGGCTCAGCAGCAGGATAAA  
CCGCTCGTTTTCCGGAGGCTGAAGCAGGAACGGGAGAATGCCGCAAGGGGGTCTGAGGGCAAGCCCTCCCTAACC  
CTTCCAGCCTCCGCTCCTGCACCTGAGGAGGCCCTCACAACAGTCAAGTGGCCCCAGCACCTCGCCGGGCAGCT  
GCCAAGTCTCCTGATCTGTCAAACCAGAACTCAGACCAAGCCAATGAGGAATGGGAGACTGCATCAGAGAGCAGT  
GACTTCACCAGTGAGCGCCGAGGGGACAAAGAGGCACCCCCACCAGTACTGCTGACACCCAAGGCTGTGGGAACT  
CCTGGGGGAGGTGGAGGTGGAGCCGTACCAGGTATTTAGCCATGTCCCGCGGAGATCTGAGCCAGAGAGCCAAG  
GATTTGAGTAAACGGAGCTTCTCAAGTCAGCGGCCAGGCATGGAACGGCAGAATCGGCGCCCTGGCCCAGGGGGC  
AAGGCTGGCAGCAGTGGCAGCAGCAGTGGAGGAGGCGGTGGGGTCTGGAGGAAGGACCGGGGCCAGGACGAGGC  
GACAAGAGGAGCTGGCCCTCTCCAAGAACCGAAGTCGTCTCCAGAGGAGCGTCCCCGGGGCTTCCCCTGCCT  
CCCCACCTCCCAGCAGTTCTGCTGTCTTCCGCTGGACCAAGTTATCCACAGCAACCCTGCTGGCATCCAACAG  
GCTCTGGCCAGCTTAGTAGCCGTCAAGGGAGTGTAACTGCACCAGGGGGTTCATCAAGGCACAAGCCTGGGCCT  
CCCCAAGCCCCCTCAGGGCCCCCTCTCCTAGGCCCCCAACCCGATACGAGCCCCAGAGGGTCAACAGCGGCCTCAGT  
TCTGACCCCCACTTTGAGGAGCCGGGGCCAATGGTGAGAGGGTGGGTGGGACTCCTCGGGACTCTGCCGGGGTT  
AGTCCCTTTCCCCCTAAACGTCGGGAGCGGCCTCCCAGAAAACCAGAGCTGCTACAGGAGGAATCTTTGCCACCT  
CCTCATAGCTCTGGATTCTTGGGCTCTAAGCCTGAGGGCCAGGCCCTCAGGCAGAGTCCAGAGATACAGGCACA  
GAGGCCCTGACCCCTCACATCTGGAACCGTTTACATACTGCCACTAGCCGAAAGAGTTACCGGCCAGCTCCATG  
GAGCCTTGGATGGAGCCCTGAGTCCTTTTGGAGGTGTGGCTGGCACAGAAATGAGTCAGTCTGACAGTGGGGTG  
GACCTGAGTGGGATTCTCAGGTGTATCAGGTCCCTGCAGCCAGCGAAGTTCCCCTGATGGAGGACTCAAGGGG  
GCAGCAGAGGGACCCCCAAGAGGCCTGGAGGCTCCTACCCCTGAATGCTGTTCTTGTGAGGGTCCACCTGGC  
TCTGAACCTCCTAGGAGACCACCTGCCCCCACGATGGGGACAGAAAGGAGCTGCCCCGGGAGCAGCCTCTG  
CCCCCTGGCCCCATTGGCACAGAACGATCACAGCATAACAGCCGAGGCACAGAGCCTGGCCCCATTGCGCCATCC  
CATCGACCTGGTCCCCCAGTCCAGTTTGGCACTAGTGACAAGGACTCAGACTTACGCCTAGTGGTAGGAGACAGC  
TTGAAAGCAGAGAAGGAGCTAACAGCATCAGTCACTGAGGCCATTTCCTGTATCACGAGACTGGGAGCTGCTTCCC  
AGTGCTGCTGCCTCTGCTGAGCCACAATCCAAGAACCTGGATTCTGGGCACTGTGTCCCGAGCCCAGCTCCTCA  
GGCCAGCGCCTGTATCCTGAGGTTTTCTATGGCAGTGTGGGCCCTTCCAGTTCTCAGATCTCTGGGGGAGCCATG  
GACTCTCAATTACATCCAACAGTGGAGGCTTCCGCCCTGGGACACCCTCACTGCACCCTTACAGATCACAGCCC  
CTATACCTACCCCCCGGGCCAGCCCCCTCCCTCAGCACTGCTCTCTGGGGTAGCTCTCAAGGGCCAGTTTCTGGAT  
TTCTCCACAATGCAAGCTACAGAGCTGGGGAAGTTGCCGGCTGGAGGAGTTCTCTACCCTCCACCTTCCTTCCTC  
TACTCTCCGGCTTTCTGCCCCAGTCTTTGCTGACACATCGTTGCTTCAGGTACGCCAGGATCTGCCATCCCCCT  
TCGGATTTTTATTCTACTCCTCTGCAGCCTGGTGGCCAAAGTGGCTTTCTCCCTTCAGGGGCTCCTGCCAGCAG  
ATGCTTCTACCCATGGTAGACTCACAGCTGCCTGTGGTGAACCTTGGCTCCCTGCCGCCAGCACCACCTCCTGCC  
CCACCTCCCCCTTTCTCTGTTACCTGTGGGCCCTGCTCTGCAGCCCCCAGCCTGGCTGTGCGGCCCCACCTGCT  
CCTGCTACTCGGGTGTGCTTCACCTGCCAGGCCCTTCCCCGCTAGCTTGGGGCGAGCAGAGCTGCATCCAGTG  
GAACTAAAGCCGTTCCAGGATTATCAAAAACCTGAGCAGCAACCTTGGGGGACCTGGATCATCACGGAAGTCCCCCA  
ACTGGAAGGTCCTTCTCTGGCCTCAATTCCCGTCTCAAGGCCACGCCCTCCACCTACAGTGGAGTCTTCCGCACC  
CAGCGCGTCGACCTTTACCAGCAGGCCTCCCCACCAGATGCCCTGCGCTGGATACCTAAGCCTTGGGAGCGGACA  
GGGCTGCCACCTCGAGAAGGGCCCTCCCGACGGGCAGAGGAGCCTGGGTCCCGAGGGGACAAGGAGCCTGGGTTG  
CCCCACCCCGCTGAGGGAGTTCTCTTGGCCCCCTACCCCCGGGGCTTGATATAGATTATAAATATATAAGGGG  
GAAAGGGGTGGGCGGGGAGGGGTTGTGGGGCTGGGGCCTCACTTCCCCTCCTCCCCCTTCCCCTGGTCCCCTGTC  
CCTGGGGCTGTTTGTAAAAAGAGTAATAAAGGATT

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**FIGURE 1980**

MSDRSGPTAKGKDGGKYSSINLFDITYKGKSLEIQKPAVAPRHGLQSLGKVAIARRMPPPPANLPSLKAENKGNPN  
VSLVPKDGTDGWASKQEQSDPKSSDASTAQPPESQPLPASQTPASNQPKRPPAAPENTPLVPSGVKSWAQASVTHG  
AHGDGGRASSLLSRFSREEFPTLQAAGDQDKAAKERESAEQSSGPGPSLRPQNSTTWDRDGGGRGPDELEGPD SKL  
HHGHDPGRGLQPSGPPQFPFYRGMMPPFMYPPYLFPFPFYGPQGPYRYPTPDGFSRFPFRVAGPRGSGPPMRLVEP  
VGRPSILKEDNLKEFDQLDQENDDGWAGAHEEVDTYTEKLKFSDEEDGRDSDEEGAEGHRDSQSASGEERPPEADG  
KKGNPNSEPPPTPKTAWAETSRRPETEPGPPAPKPPLPDGDYDPRGGPPCKPPAPEDEDEAWRQRRKQSSSEISL  
AVERARRRREEEERRMQEERRAACAEKLRLEDEKFGAPDKRLKAEPAPPAAPSTPAPPPAVPKELPAPPAPPPA  
SAPTPEKEPEEPAQAPPAQSTPTFGVAAAPTIVSGGGSTSSSTSSGSFEASPVEPQLPSKEGPEPPEEVPPPTTPP  
VPKVEPKGDGIGPTRQPPSQGLGYPKYQKSLPPRFQRQQEQQLLKQQQHQWQQHQQGSAPPTPVPPSPPQPVTL  
GAVPAPQAPPPPKALYPGALGRPPPMPPMNFDPWMMIPPYVDPRLLOGRPPLDFYPPGVHPSGLVPRERSDSG  
GSSSEPFDRHAPAMLRERGTTPVDPKLAWVGDFVTATPAEPRPLTSPLRQAADDDKGMRSSETPPVPPPPPYLAS  
YPGFPENGAPGPPISRFPLEEPGRPLPWPPGSDEVAKIQTPPPKKEPPKEETAQLTGPEAGRKPARGVSGGGQG  
PPPPRRSRTETRWGPRPGSSRRGIPPEEPGAPRRAGPIKKPPPTKVEELPPKPLEQGDETPKPPKPDPLKIT  
KGKLGPKETPPNGNLSAPAPRLRRDYSYERVGPTSCRGRGRGEYFARGRGFRGTYGGRGRGARSREFRSYREFRG  
DDGRGGGTGGPNHPPAPRGRTASETRSEGSEYEEIPKRRRQRGSETGSETHESDLAPSDKEAPTKEGTLTQVPL  
APPPPGAPPSPAPARFTARGGRVFTPRGVPSTRGRGGGRPPPQVCPGWSPPAKSLAPKKPPTGPLPPSKEPLKEK  
LIPGPLSPVARGGSGNGSNVGMEDGERPRRRRHGRAQQQDKPPRFRLKQERENAARGSEGKPSLTLPASAPAPE  
EALTTVTVPAPARRAAKSPDLNSQNSDQANEWEASESSDFTSERRGDKEAPPPVLLTPKAVGTPGGGGGGAV  
PGISAMSRGDLQRAKDLKRSFSSQRPGRMERQNRPPGPGGKAGSSSGSSSGGGGGGGPGGRTGPRGRDKRSPK  
NRSRPPEERPPGLPLPPPPSSSAVFRDLQVIHSNPAGIQQALQLSSRQGSVTAPGGHPRHKPGPPQAPQGPSP  
RPPTRYEPQRVNSGLSSDPHFEEPGPMVRGVGGTPRDSAGVSPFPKRRERPPRKPELLQEESLPPPHSSGFLGS  
KPEGPGPQAESRDTGTEALTPHIWNRLHTATSRKSYRPSMEPWMEPLSPFEDVAGTEMSQSDSGVDLSGDSQVS  
SGPCSQRSSPDGGLKGAAGPPKRPGGSSPLNAVPCGPPGSEPPRRPPAPHDGDRKELPREQPLPFGPIGTER  
SQHTDRGTEPGPIRPSHRPGPPVQFGTSDKDSLRLVVGDSLKAKELTASVTEAIPVSRDWELLPSAAASAEPQ  
SKNLDSGHCVPEPSSSGQRLYPEVFYGSAGPSSSQISGGAMDSQLHPNSGGFRPGTPSLHPYRSQPLYLPPGPAP  
PSALLSGVALKGQFLDFSTMQATELGKLPAGGVLYPPPSFLYSPAFCPSPLPDTSLLQVRQDLPSPSDFYSTPLQ  
PGGQSGFLPSGAPAQMLLPMVDSQLPVVNFGLPPAPPPAPPLSLLPVGPALQPPSLAVRPPAPATRVLPSP  
ARPPFASLGRAELHPVELKPFQDYQKLSSNLGGPGSSRTPTTGRSFSGLNSRLKATPSTYSGVFRTQVRVDLYQQA  
SPPDALRWIPKPWERTGLPPREGPSRRAEPPGSRGDKEPGLPPPR

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**FIGURE 1981A**

CCCTAGGCCCCGGGTCCCGGATCCCCGCGCACCCGGCCAGGCTCTGGCACGTTTTGGGGGAGGTGCCTGCAGGACC  
CAACATACTCAATGAGCTTCCAGCGCAATGTCCGATCGCTCGGGGCCGACTGCCAAGGGAAAGGATGGAAAGAAG  
TATTCTCGCTCAACCTGTTTGATACGTATAAGGGCAAGTCCTTAGAGATCCAGAAACCCGCTGTTGCCCTCGC  
CATGGCCTGCAGAGTCTCGGGAAAGTTGCCATTGCCCGGCGTATGCCACCTCCAGCCAACCTTCCAAGCCTGAAA  
GCCGAGAACAAAGGCAATGACCCCAATGTCTCACTAGTGCCAAAAGACGGAACAGGATGGGCAAGCAAACAGGAG  
CAGTCCGACCCCAAGAGTTCCGATGCCTCAACCGCTCAGCCGCCGGAATCGCAGCCACTGCCGGCTTCACAGACG  
CCTGCCTCCAACCAGCCGAAACGACCCCCAGCAGCCCCGAGAACACTCCTTTGGTTCCAAGCGGGGTAAAGTCC  
TGGGCACAAGCCAGCGTCACCCATGGAGCACATGGAGATGGTGGAAAGGGCATCAAGCCTACTGTCACGATTCTCT  
CGAGAGGAATTTCCGACCCTGCAGGCGGTGGCGACCAGGACAAGGCTGCCAAGGAAAGGGAGTCTGCCGAACAG  
TCGTCTGGGGCCCGGACCAAGCCTCCGCCCCCAAATTCTACAACCTTGAGGGACGGAGGTGGGCGTGGCCCTGAT  
GAGCTGGAGGGCCCGGACTCCAACTTCATCATGGTCATGATCCCCGGGGTGGGCTACAGCCTTCAGGCCACCC  
CAGTTCCCTCCCTACCGCGGAATGATGCCGCTTTCATGTATCCCCATATCTCCCGTTCCCTCCGCCCTATGGA  
CCCCAGGGGCCCTTACCGATACCCACTCCTGATGGGGCCAGCCGTTTTCCCGTGTGGCGGGCCCCCGAGGCTCA  
GGGCCACCAATGCGCTTAGTAGAGCCTGTGGGTGCTCCCTCTATTCTCAAAGAGGATAATCTCAAAGAGTTTGAT  
CAGTTGGATCAGGAGAATGATGATGGTTGGGCAGGGGCCATGAAGAGGTTGACTACACTGAAAAGCTCAAGTTC  
AGCGATGAGGAAGATGGGCGAGACTCTGATGAGGAGGGAGCTGAGGGCCACAGGGATTCCCAATCAGCTTCTGGT  
GAGGAACGGCCCCCTGAAGCAGATGGCAAAAAGGGCAACTCCCCAACAGCGAACCGCCCACTCCTAAGACGGCC  
TGGGCAGAAACCTCTCGGCCTCCAGAGACAGAGCCGGGACCTCCTGCCCAAAGCCTCCCTACCCCCACCTCAC  
CGGGGCCCGCGCGGAAGTGGGGCCCCCTGGGGACTACCCAGATCGTGGGGGTCTCCCTGCAAGCCCCCAGCA  
CCTGAAGATGAGGATGAGGCATGGCGGCAGCGACGAAAGCAGTCTGTCATCTGAGATTTCCCTGGCAGTGGAGCGG  
GCCCCGCGACGCGGAGAAGAAGAGGAGCGGCGCATGCAAGAAGAGCGCCGGGCAGCCTGTGCTGAGAAGCTCAAG  
CGACTCGATGAAAAGTTTGGGGCACCTGACAAGCGGCTCAAAGCAGAGCCTGCTGCCCCACCTGCTGCCCTTCT  
ACCCAGCTCCACCACCTGCAGTCCCTAAAGAACTCCCTGCACCTCCAGCTCCACCTCCAGCATCAGCCCCAACA  
CCAGAGAAAGAACCTGAAGAGCCAGCACAGGCCCCCTCTGCCAATCTACTCCTACTCCAGGTGTGGCTGCGGCT  
CCCCTCTGGTGAGTGGTGGTGGCAGTACCAGTAGCACCAGCAGTGGCAGCTTCGAAGCCAGCCCAGTGGAAACCA  
CAACTGCCCTCAAAGAGGGTCTGAACCACCAGAAGAGGTTCTCTCTTACCACACCCCCAGTTCCAAAGGTG  
GAACCCAAGGGTGATGGGATTGGTCCCACCCGCCAGCCCCCTAGTCAGGGCTTGGGCTACCCCAAATATCAGAAG  
TCGTTGCTCTCTCGTTTCCAGCGGCAGCAGCAGGAGCAGCTCCTGAAGCAGCAGCAGCAGCAGCAGTGGCAGCAG  
CATCAACAGGGCTCTGCCCTCTTACCCAGTGCCCCCATCACCACACAGCCTGTGACCCTGGGGGTGTGCCA  
GCTCCACAGGCTCCACCCCCGCCCCCAAGGCCCTGTACCCAGGTGCTCTGGGCGGGCCCCCACCATGCCCCCA  
ATGAACTTTGATCCCCGATGGATGATGATTCTCTCTTATGTGGACCCCCGGCTCCTCCAGGGTCTGTCCTCTTA  
GACTTCTACCCTCCTGGTGTGCATCCCTCTGGCCTAGTTCCCCGAGAGCGTTCAGACAGTGGGGGTCAAGCTCA  
GAGCCATTGACCGTCATGCACCTGCTATGTTACGGGAACGGGGCACTCCACCGGTGGATCCAAAGTTGGCCTGG  
GTAGGAGATGTTTACCGCCACACCGCTGAACCCCGCCCACTTACCTCACCTCTGCGCCAGGCTGCGGATGAG  
GATGACAAGGGGATGAGGAGCGAGACTCCTCCAGTACCTCCCCACCACCCTATCTGGCCAGTTATCCAGGCTTT  
CCTGAGAATGGAGCCCCTGGGCCCCCAATCTCTCGCTTCTCTGAGGAACCAGGGCCCCCTCACTCCCCTGG  
CCCCAGGCAGTGATGAAGTGGCCAAGATACAACTCCACCACCCAAGAAGGAGCCCCCTAAGGAGGAGACTGCA  
CAGCTGACGGGGCCAGAAGCAGGCCGAAAGCCTGCCCGCGGAGTCGGGAGTGGAGGCCAGGGCCCCCACCACCA  
CGCAGAGAGATCGCACAGAGACCCGCTGGGGCCCTCGTCCAGGGAGCAGTCTGCTGGAATCCCTCCAGAGGAG  
CCAGGGGCCCAACCCGCGGGGTGGGCCTATAAAGAAACCTCCACCACCTACAAAAGTAGAAGAGCTGCCTCCC  
AAGCCCCCTCGAACAGGGGGATGAAACCCCCAAACCCCCAAAGCCAGACCCACTCAAGATAACCAAGGGGAAGCTA  
GGGGGCCCAAGGAGACCCACCCATGGAATCTTTCCCTGCCCAAGGCTTCGGAGGGACTATTCTGATGAA  
AGAGTGGGTCTTACCTCTTGCCGGGGTGGGGCCGAGGCGAGTATTTGCCAGAGGGAGGGGTTTTCGGGGGACC  
TATGGGGGACGAGGGCGGGGAGCCCGAAGCCGGGAATTCCGAGTTACCGAGAGTTTCGAGGAGATGATGGGCGT  
GGAGGTGGGACAGGGGGACCAAACCACCTCCTGCTCCCCGAGGCCGCACTGCCAGCGAGACACGGAGCGAGGGT  
TCAGAGTATGAGGAAATCCCCAAGCGGCGCCGGCAGCGGGGCTCAGAAACAGGCAGCGAGACCCATGAGAGTGAT  
CTGGCTCCTTCAGACAAGGAGGCTCCACACCCAAGGAGGGAACACTCACCAGGTCCCTCTCGCTCCCCACCA  
CCAGGAGCCCCACCTTCACCAGCCCCAGCCGCTTCACTGCCCGGGGTGGGCGAGTCTTCACTCCCAGAGGGGTG

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**FIGURE 1981B**

CCATCTCGCCGGGGCCGAGGAGGAGGGAGGCCCCCTCCTCAAGTTTGTCCAGGCTGGAGCCCTCCAGCCAAGTCT  
CTGGCTCCCAAGAAACCTCCACAGGCCCTTTGCCACCAAGTAAGGAGCCTTTGAAAGAGAAGTTGATCCCAGGG  
CCTCTGTCCCTGTGGCGCGCGGAGGCAGCAATGGAGGTAGCAATGTGGGCATGGAAGATGGGGAGCGACCCCGA  
AGGAGGCGACATGGGAGGGCTCAGCAGCAGGATAAACC GCCTCGTTTCCGGAGGCTGAAGCAGGAACGGGAGAAT  
GCCGCAAGGGGGTCTGAGGGCAAGCCCTCCCTAACCTTCCAGCCTCCGCTCCTGCACCTGAGGAGGCCCTCACA  
ACAGTCACAGTGGCCCCAGCACCTCGCCGGGCAGCTGCCAAGTCTCCTGATCTGTCAAACCAGAACTCAGACCAA  
GCCAATGAGGAATGGGAGACTGCATCAGAGAGCAGTGACTTCACCAGTGAGCGCCGAGGGGACAAAGAGGCACCC  
CCACCAGTACTGCTGACACCCAAGGCTGTGGGAACTCCTGGGGGAGGTGGAGGTGGAGCCGTACCAGGTATTTCA  
GCCATGTCCCGCGGAGATCTGAGCCAGAGAGCCAAGGATTTGAGTAAACGGAGCTTCTCAAGTCAGCGGCCAGGC  
ATGGAACGGCAGAATCGGCGCCCTGGCCCAGGGGGCAAGGCTGGCAGCAGTGGCAGCAGCAGTGGAGGAGGCGGT  
GGGGGTCTTGAGGAAGGACCGGGCCAGGACGAGGCGACAAGAGGAGCTGGCCCTCTCCCAAGAACC GAAGTCGT  
CCTCCAGAGGAGCGTCCCCCGGGGCTTCCCCTGCCTCCCCACCTCCCAGCAGTTCTGCTGTCTTCCGCCTGGAC  
CAAGTTATCCACAGCAACCCTGCTGGCATCCAACAGGCTCTGGCCCAGCTTAGTAGCCGTCAAGGGAGTGTA  
GCACAGGGGGTCAATCAAGGCACAAGCCTGGGCCTCCCCAAGCCCCCTCAGGGCCCCCTCTCCTAGGCCCCCAACC  
CGATACGAGCCCCAGAGGGTCAACAGCGGCCTCAGTTCTGACCCCCACTTTGAGGAGCCGGGGCCAATGGTGAGA  
GGGGTGGGTGGGACTCCTCGGGACTCTGCCGGGGTTAGTCCCTTTCCCCCTAAACGTCGGGAGCGGCCTCCCAGA  
AAACCAGAGCTGCTACAGGAGGAATCTTTGCCACCTCCTCATAGCTCTGGATTCTTGGGCTCTAAGCCTGAGGGC  
CCAGGCCCTCAGGCAGAGTCCAGAGATACAGGCACAGAGGCCCTGACCCCTCACATCTGGAACCGTTTACATACT  
GCCACTAGCCGAAAGAGTTACCGGCCAGCTCCATGGAGCCTTGGATGGAGCCCCCTGAGTCCTTTTGAGGATGTG  
GCTGGCACAGAAATGAGTCAGTCTGACAGTGGGGTGGACCTGAGTGGGGATTCTCAGGTGTATCAGGTCCCCTGC  
AGCCAGCGAAGTTCCCTGATGGAGGACTCAAGGGGGCAGCAGAGGGACCCCCCAAGAGGCCTGGAGGCTCCTCA  
CCCCTGAATGCTGTTCTTGTGAGGGTCCACCTGGCTCTGAACCTCCTAGGAGACCACCACCTGCCCCCCACGAT  
GGGGACAGAAAGGAGCTGCCCCGGGAGCAGCCTCTGCCCCCTGGCCCCATTGGCACAGAACGATCACAGCATACA  
GACCGAGGCACAGAGCCTGGCCCCATTGCGCCATCCCATCGACCTGGTCCCCCAGTCCAGTTTGGCACTAGTGAC  
AAGGACTCAGACTTACGCCTAGTGAGGAGACAGCTTGAAAGCAGAGAAGGAGCTAACAGCATCAGTCACTGAG  
GCCATTCTGTATCACGAGACTGGGAGCTGCTTCCAGTGCTGCTGCCTCTGCTGAGCCACAATCCAAGAACCTG  
GATTCTGGGCACTGTGTCCCGGAGCCCAGCTCCTCAGGCCAGCGCCTGTATCCTGAGGTTTTCTATGGCAGTGCT  
GGGCCTTCCAGTTCTCAGATCTCTGGGGGAGCCATGGACTCTCAATTACATCCAAACAGTGGAGGCTTCCGCCCT  
GGGACACCCCTCACTGCACCCCTTACAGATCACAGCCCCATACCTACCCCCGGGCCAGCCCCCTCCCTCAGCACTG  
CTCTCTGGGGTAGCTCTCAAGGGCCAGTTTCTGGATTCTCCACAATGCAAGCTACAGAGCTGGGGAAAGTTGCCG  
GCTGGAGGAGTTCTCTACCCCTCCACCTTCCTTCTCTACTCTCCGGCTTTCTGCCCCAGTCCTTTGCTGACACA  
TCGTTGCTTCAGGTACGCCAGGATCTGCCATCCCCCTCGGATTTTATTCTACTCCTCTGCAGCCTGGTGGCCAA  
AGTGGCTTTCTCCCTTACAGGGCTCCTGCCCAGCAGATGCTTCTACCCATGGTAGACTCACAGCTGCCTGTGGTG  
AACTTTGGCTCCCTGCCGCCAGCACCTCCTGCCCCACCTCCCTTTCTCTGTTACCTGTGGGCCCTGCTCTG  
CAGCCCCCAGCCTGGCTGTGCGGCCCCACCTGCTCCTGCTACTCGGGTGCTGCCTTACCTGCCAGGCCCTTC  
CCGCTAGCTTGGGGCGAGCAGAGCTGCATCCAGTGGAATAAAGCCGTTCCAGGATTATCAAAAAGTGAAGCAGC  
AACCTTGGGGGACCTGGATCATCACGGACTCCCCAACTGGAAGGTCCTTCTCTGGCCTCAATTCCCGTCTCAAG  
GCCACGCCTTCCACCTACAGTGGAGTCTTCCGCACCCAGCGCTCGACCTTTACCAGCAGGCCTCCCCACCAGAT  
GCCCTGCGCTGGATACCTAAGCCTTGGGAGCGGACAGGGCTGCCACCTCGAGAAGGGCCCTCCCGACGGGCAGAG  
GAGCCTGGGTCCCAGGGGACAAGGAGCCTGGGTGCCCCCACCCCGCTGAGGGAGTTCTCTTGGCCCCCTACCC  
CCGGGGCTTGTATATAGATTATAAATATATAAGGGGGAAAGGGGTGGGCGGGGAGGGGTGTGGGGCTGGGGCT  
CACTTCCCCCTCCTCCCCCTTCCCCTGGTCCCCTGTCCCTGGGGCTGTTTGTAAAAAAGAGTAATAAAAGGATTT

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**FIGURE 1982**

MSDRSGPTAKGKDGGKYSSSLNLFDTYKGKSLEIQKPAVAPRHGLQSLGKVAIARRMPPPPANLP SLKAENKGNDPN  
VSLVPKDG TGWASKQEQSDPKSSDASTAQPPESQPLPASQTPASNQPKRPPAAPENTPLVPSGVKSWAQASVTHG  
AHGDDGRASSLLSRFSREEFPTLQAAGDQDKAAKERESAEQSSGPGPSLRPQNSTTW RDGGGRGPDELEGPD SKL  
HHGHDP RGG LQPSGPPQFPFYRGMMPPFMYPYLPFPFPYGPQGPYRYPTPDGFSRFPRVAGPRGSGPPMRLVEP  
VGRPSILKEDNLKEFDQLDQENDDGWAGAHEEVDYTEKLKFSDEEDGRDSDEEGAEGHRDSQSASGEERPPEADG  
KKGNSPNSEPTPTKTAWAETSRPPETEPGPPAPKPPLPPPHRGPA GNWGPFGDY PDRGGPPCKPPAPEDEDEAWR  
QRRKQSSEISLAVERARRRREERREERMQEERRAACAEKLRKRLDEKFGAPDKRLKAEP AAPPAAPSTPAPPPAVP  
KELPAPPAPPPASAPTPEKEPEEPAQAPPAQSTPTPGVAAAPT LVSGGGSTSSSTSGSFEASVPEPQLPSKEGPE  
PPEEVPPPTTPPVPKVEPKGDGIGPTRQPPSQGLGYPKYQKSLP PRFQRQQEQQLLKQQQHQWQQHQQSAPPT  
PVPPSPFPQVTLGAVPAPQAPPPPKALYPGALGRPPPMPPMNFDP RWMMI PPYVDPRL LQGRPLDFYPPGVHP  
SGLVPRERSDSGGSSSEPFDRHAPAMLRERGTTPVDPKLAWVGDVFTATPAEPRPLTSPLRQAAD EDDKGM RSET  
PPVPPPPPYLASYPGFPENGAGPPI SRFPLEEPGRPLPWPPGSDEVAKIQTPPPKKEPPKEETAQLTGPEAGR  
KPARGVSGGGQGP PPRRRTETRWGPRPGSSRRGIPPEEPGAPPRAGP IKKPPPTKVEELPPKPLEQGD ET  
PKPPKPDPLKITKGKLGPKETTPNGNLS PAPRLRRDYSYERVGPTSCRGGRGEYFARGRGFRGT YGGRGRGAR  
SREFRSYREFRGDDGRGGGTGGPNHPPAPRGRTASETRSEGSEYEEIPKRRRQRGSETGSETHESDLAPSDKEAP  
TPKEGTLTQVPLAPPPPGAPPSPAPARFTARGGRVFTPRGVPSRRGRGGGRPPPVQCPGWSPPAKSLAPKKPPTG  
PLPPSKEPLKEKLIPGPLSPVARGGSNGGSGNVGMDGERPRRRRHGRAQQQDKPPRFRR LKQERENAARGSEGKP  
SLTLPASAPAPEEALTTVTVAPAPRRAAAKSPDLSNQNSDQANEWE TASESSDFTSERRGDKEAPPPVLLTPKA  
VGTPGGGGGGAVPGISAMSRGDL SQRAKDLSKRSFSSQRP GMERQNRPGPGGKAGSSGSSSGGGGGGGPGGRTGP  
GRGDKRSWPSPKNRSRPPEERPPGLPLPPPPSSSAVFRLDQVIHSNPAGIQQALQLSSRQGSVTAPGGHPRHK  
PGPPQAPQGPSRPPTRYEPQRVNSGLSSDPHFEEPGPMVRGVGGT PRDSAGVSPFPKRRERPPRKPELLQEE S  
LPPPHSSGFLGSKPEGPGPQAESRDTGTEALTPHIWNRLHTATSRKSYRPS SMEPWMEPLSPFEDVAGTEMSQSD  
SGVDLSGDSQVSSGPCSQRSSPDGGLKGAAGPPKRPGGSSPLNAVPCEGPPGSEPPRRPPPA PHDGDRKELPRE  
QPLPPGPIGTERSQHTDRGTEPGPIRPSHRPGPPVQFGTSDKSDSLRLVVGDSLKAEKELTASVTEAIPVSRDWE  
LLPSAAA SAEPQSKNLD SGHC VPEPSSSGQRLYPEVFYGSAGPSSSQISGGAMDSQLHPNSGGFRPGTPSLHPYR  
SQPLYLP PGPAPP SALLSGVALKGQFLDFSTMQATELGKLPAGGVLYPPPSFLYSPAFCPSPLPDTSL LQVRQDL  
PSPSDFYSTPLQPGGQSGFLPSGAPAQMLLP MVDSQLPVVNF GSLPPAPP PAPPPLSLLPVGPALQPPSLAVRP  
PPAPATRVLPSPARPFPASLGRAELHPVELKPFQDYQKLSNLGGPGSSRTPTTGRSFSGLNSRLKATPSTYSGV  
FRTQRVDLYQQASPPDALRWIPKP WERTGLPPREGPSRRAEEPGSRGDKEFGLPPPR

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**FIGURE 1983**

CCGAGCTTCTTAAACACAGGCCTTGGGCCTACGGCTCTGGGGGTACTTGGGGGGGCGGGGGCAGGTCTGATGAGT  
AACCCCTCCCCCAGGTTCCAGAGGAAGAAGCCTCCACATCTGTCTGCCGGCCCAAGAGTTCCATGGCCTCCACT  
TCCCGCCGCCAACGCCGAGAACGTCGCTTTTCGTCGTTACTTGTCTGCAGGACGGCTGGTCCGGGGCCAGGCCCTC  
CTCCAGCGACACCCAGGCCTCGATGTAGATGCTGGGCAGCCCCACCACTGCACCGGGCCTGTGCCCGCCACGAT  
GCCCCTGCCCTGTGCCTGCTGCTTCGGCTCGGGGCTGACCCTGCCACCAGGACCGCCATGGGGACACGGCACTG  
CATGCTGCTGCCCCGCCAGGGCCCAGATGCCTACACCGATTTCCTTCCCTCCCGCTGCTAAGCCGCTGTCCCTCCGCC  
ATGGGAATAAAGAATAAGGATGGGGAGACCCCTGGCCAAATTTTGGGCTGGGGACCCCCCTGGGATTCTGCTGAA  
GAGGAGGAAGAAGATGATGCCTCCAAGGAGCGGGAATGGAGACAGAAGCTCCAGGGTGAGCTGGAGGACGAGTGG  
CAGGAAGTCATGGGGAGGTTTGAAGGTGATGCCTCCCATGAAACCCAGGAACCTGAGTCCTTCTCAGCCTGGTCA  
GATCGCCTGGCCCCGGGAACATGCCCAGAAGTGCCAGCAGCAGCAGCGAGAAGCAGAGGGATCCTGTGACCCCCA  
CGTGCTGAGGGCTCCAGCCAGAGCTGGCGACAGCAGGAGGAGGAGCAGCGGCTCTTCAGGGAGCGAGCCCCGGGCC  
AAGGAGGAAGAGCTGCGTGAGAGCCGAGCCAGGAGGGCGCAGGAGGCTCTAGGGGACCGAGAACCCAAGCCAACC  
AGGGCCGGGGCCAGGGAAGAGCACCCAGAGGAGCGGGGAGGGGCAGCCTCTGGCGATTGGTGATGTGCCCTGG  
CCCTGCCCTGGGGGAGGGGACCCAGAGGCCATGGCTGCAGCCCTGGTGGCCAGGGGCCCCCTTTGGAGGAACAG  
GGGGCTCTGAGGAGGTACTTGAGGGTCCAGCAGGTCCGCTGGCACCCCTGACCGCTTCTGTCAGCGATTCCGAAGC  
CAGATTGAGACCTGGGAGCTGGGCCGTGTGATGGGAGCAGTGACAGCCCTTTCTCAGGCCCTGAATCGCCATGCA  
GAGGCCCTCAAGTGACCCTAGGGAAGAAGCAAGAACTTCGGGGCTGCAGCCTCAGGATGAGGCAGAAGGAAGGG  
TAAGGGAAAGGATGGGGACCACAAGGAAGAGCCAGGTGCTGCTCAGCAGAGGATATGGGTGGGAGCGAAAGTTGT  
AACAAGTGGGGGTGGGGGTGCGGGCCGCCACCACTGCTCCTTGACTCTGCCGTTTCCTAATAAGACCTGGTTCC  
ACATCTC



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**FIGURE 1984**

ACAGGCATTTTCCAAAAGGCAAGCCTGGAGCGCACGGATCTGTATAACCGCGGAAGGCCCTGTTCCGGTCCCTTG  
CGCCTGCGCTCTTGACAGCCAAGAAGGCGGGAGGCTGGAGTAGAGGGAAGCCTGCAACCGGAAGTGAAGGCAGATT  
TCCCTCCTTCGTCGCTGTTGCTGCCGCCATACGCGCTCTCCCTGTTTAGTTATGGCAGAGAACGATGTGGACAAT  
GAGCTCTTGGACTATGAAGATGATGAGGTGGAGACAGCAGCTGGGGGAGATGGGGCTGAGGCCCTGCCAAGAAG  
GATGTCAAGGGCTCCTATGTCTCCATCCACAGCTCTGGCTTTTCGTGACTTCCTGCTCAAGCCAGAGTTGCTCCGG  
GCCATTGTGCGACTGTGGCTTTGAGCATCCGTCAGAAGTCCAGCATGAGTGCATCCCTCAGGCCATTCTGGGAATG  
GATGTCCTGTGCCAGGCCAAGTCGGGCATGGGAAAGACAGCAGTGTGTTGCTTGGCCACACTGCAACAGCTGGAG  
CCAGTTACTGGGCAGGTGTCTGTGCTGGTGTGTGTGTCACACTCGGGAGTTGGCTTTTCAGATCAGCAAGGAATAT  
GAGCGCTTCTCTAAATACATGCCCAATGTCAAGGTTGCTGTTTTTTTTTGGTGGTCTGTCTATCAAGAAGGATGAA  
GAGGTGCTGAAGAAGAAGTCCCCGCATATCGTCGTGGGGACTCCAGGCCGTATCCTAGCCCTGGCTCGAAATAAG  
AGCCTCAACCTCAAACACATTAAACACTTTATTTTGGATGAATGTGATAAGATGCTTGAACAGCTCGACATGCGT  
CGGGATGTCCAGGAAATTTTTCGCATGACCCCCACGAGAAGCAGGTCATGATGTTCAGTGCTACCTTGAGCAAA  
GAGATCCGTCCAGTCTGCCGCAAGTTCATGCAAGATCCAATGGAGATCTTCGTGGATGATGAGACGAAGTTGACG  
CTGCATGGGTTGCAGCAGTACTACGTGAACTGAAGGACAACGAGAAGAACCAGGAGCTCTTTGACCTTCTGGAT  
GTCCTTGAGTTCAACCAGGTGGTGTATCTTTGTGAAGTCTGTGCAGCGGTGCATTGCCTTGGCCCAGCTACTAGTG  
GAGCAGAACTTCCCAGCCATTGCCATCCACCGTGGGATGCCCCAGGAGGAGAGGCTTTCTCGGTATCAGCAGTTT  
AAAGATTTTCAACGACGAATTCTTGTGGCTACCAACCTATTTGGCCGAGGCATGGACATCGAGCGGGTGAACATT  
GCTTTTAATTATGACATGCCTGAGGATTCTGACACCTACCTGCATCGGGTGGCCAGAGCAGGCCGGTTTGGCACC  
AAGGGCTTGGCTATCACATTTGTGTCCGATGAGAATGATGCCAAGATCCTCAATGATGTGCAGGATCGCTTTGAG  
GTCAATATTAGTGAGCTGCCTGATGAGATAGACATCTCCTCCTACATTGAACAGACACGGTAGAAGACTCGCCCA  
TTTTGGAAATGTGACCGTCTGTCTTTCAGGAGAGGACACCAGGGTGGGGGTGAAGGAGACACTACTGCCCCACCC  
CTGACAGCCCCACCCCATGGCTTCCATCTTTTGCATCACCACCCTCCTGAACCCCCATTTCTGATTTGTCAGA  
ATTTTTTTTTTAACAAAATAAAAATGAAACACATGTGTCTGTGGTATCTAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1985**

MAENDVDNELLDYEDDEVETAAGGDGAEAPAKKDVKGSYVSIHSSGFRDFLKPELLRAIVDCGFEHPSEVQHEC  
IPQAILGMDVLCQAKSGMGKTAVFVLATLQOLEPVTGQVSVLVMCHTRELAFQISKEYERFSKYMPNVKVAVFFG  
GLSIKKDEEVLKKNCPHIVVGTPGRILALARNKSLNLKHIKHFILDEC DKMLEQLDMRRDVQEIFRMTPEKQVM  
MFSATLSKEIRPVCRKFMQDPMEIFVDDETKLTTLHGLQQYYVKLDNEKNRKLFDLLDVLEFNQVVIFVKSVCRC  
IALAQLLVEQNFPAAIAIHRGMPQEERLSRYQQFKDFQRRILVATNLFGRGMDIERVNIAFNIDMPEDSDTYLHRV  
ARAGRFGTKGLAITFVSDENDAKILNDVQDRFEVNISELPDEIDISSYIEQTR

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**FIGURE 1986**

ACAGGCATTTTCCAAAGGCAAGCCTGGAGCGCACGGATCTGTATAACCGCGGAAGGCCCTGTTTCCGGTCCCTTG  
CGCCTGCGCTCTTGCAGCCAAGAAGGCGGGAGGCTGGAGTAGAGGGAAGCCTGCAACCGGAAGTGAAGGCAGATT  
TCCCTCCTTCGTCGCTGTTGCTGCCGCCATACGCGCTCTCCCTGTTTAGCTCTTCTGTTAGAAATAGTATCTTTG  
TTTTCTTTGCTGTTCTCAATCCCCTACTCTTCACCCCTTGTTTTACCTATTTTGCAGAGAACCCATCCAGATC  
CCCCTTCCCTTCTTCCCCTGCCGGGCCAGTTATGGCAGAGAACGATGTGGACAATGAGCTCTTGACTATGAAGA  
TGATGAGGTGGAGACAGCAGCTGGGGGAGATGGGGCTGAGGCCCTGCCAAGAAGGATGTCAAGGGCTCCTATGT  
CTCCATCCACAGCTCTGGCTTTCGTGACTTCCTGCTCAAGCCAGAGTTGCTCCGGGCCATTGTGACTGTGGCTT  
TGAGCATCCGTCAGAAGTCCAGCATGAGTGCATCCCTCAGGCCATTCTGGGAATGGATGTCCTGTGCCAGGCCAA  
GTCGGGCATGGGAAAGACAGCAGTGTGTTGCTTGGCCACACTGCAACAGCTGGAGCCAGTTACTGGGCAGGTGTC  
TGTGCTGGTGATGTGTACACTCGGGAGTTGGCTTTTTCAGATCAGCAAGGAATATGAGCGCTTCTCTAAATACAT  
GCCAATGTCAAGGTTGCTGTTTTTTTTTGGTGGTCTGTCTATCAAGAAGGATGAAGAGGTGCTGAAGAAGAACTG  
CCCGCATATCGTCGTGGGGACTCCAGGCCGTATCCTAGCCCTGGCTCGAAATAAGAGCCTCAACCTCAAACACAT  
TAAACACTTTATTTTGGATGAATGTGATAAGATGCTTGAACAGCTCGACATGCGTCGGGATGTCCAGGAAATTTT  
TCGCATGACCCCCACGAGAAGCAGGTCATGATGTTTCAGTGCTACCTTGAGCAAAGAGATCCGTCCAGTCTGCCG  
CAAGTTCATGCAAGATCCAATGGAGATCTTCGTGGATGATGAGACGAAGTTGACGCTGCATGGGTTGCAGCAGTA  
CTACGTGAAACTGAAGGACAACGAGAAGAACCGGAAGCTCTTTGACCTTCTGGATGTCCTTGAGTTCAACCAGGT  
GGTGATCTTTGTGAAGTCTGTGCAGCGGTGCATTGCCCTGGCCCAGCTACTAGTGGAGCAGAACTTCCCAGCCAT  
TGCCATCCACCGTGGGATGCCCCAGGAGGAGAGGCTTTCTCGGTATCAGCAGTTTAAAGATTTTCAACGACGAAT  
TCTTGTGGCTACCAACCTATTTGGCCGAGGCATGGACATCGAGCGGGTGAACATTGCTTTTAATTATGACATGCC  
TGAGGATTCTGACACCTACCTGCATCGGGTGGCCAGAGCAGGCCGGTTTGGCACCAAGGGCTTGGCTATCACATT  
TGTGTCCGATGAGAATGATGCCAAGATCCTCAATGATGTGCAGGATCGCTTTGAGGTCAATATTAGTGAGCTGCC  
TGATGAGATAGACATCTCCTCCTACATTGAACAGACACGGTATGAAGACTCGCCCATTTTGAATGTGACCGTCTG  
TCCTTCAGGAGAGGACACCAGGGTGGGGTGAAGGAGACACTACTGCCCCACCCCTGACAGCCCCACCCCATG  
GCTTCCATCTTTTGCATCACCACCACTCCTGAACCCCCATTTCTGATTTGTCAGAATTTTTTTTTTAACAAACTA  
AAAATGAAACACATGTGTCTGTGGTATCTAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1987**

MAENDVDNELLDYEDDEVETAAGGDGAEAPAKKDVKGSYVSIHSSGFRDFLLKPELLRAIVDCGFEHPSEVQHEC  
IPQAILGMDVLCQAKSGMGKTAVFVLATLQQLEPVTGQVSVLVMCHTRELAFQISKEYERFSKYPNVKVAVFFG  
GLSIKKDEEVLKKNCPHIVVGTPGRILALARNKSLNLKHIKHFILDEC DKMLEQLDMRRDVQEIFRMTPEKQVM  
MFSATLSKEIRPVCRKFMQDPMEIFVDDETKLT LHGLQQYYVKLKDNEKNRKLFDLLDVLEFNQVVIFVKS VQRC  
IALAQLLVEQNFP AIAIHRGMPQEERLSRYQQFKDFQRRILVATNLFGRGMDIERVNIAFN YDMPEDSDTYLHRV  
ARAGRFGTKGLAITFVSDENDAKILNDVQDRFEVNISELPDEIDISSYIEQTR

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**FIGURE 1988**

AGACGCCGAGATGCTGGTCATGGCGCCCCGAACCGTCCTCCTGCTGCTCTCGGCGGCCCTGGCCCTGACCGAGAC  
CTGGGCGGGCTCCCACTCCATGAGGTATTTGACACCGCCATGTCCCGGCCCGGCCGCGGGGAGCCCCGCTTCAT  
CTCAGTGGGCTACGTGGACGACACGCAGTTCGTGAGGTTTCGACAGCGACGCCGCGAGTCCGAGAGAGGAGCCGCG  
GGCGCCGTGGATAGAGCAGGAGGGGGCCGGAGTATTGGGACCGGAACACACAGATCTTCAAGACCAACACACAGAC  
TGACCGAGAGAGCCTGCGGAACCTGCGCGGCTACTACAACCAGAGCGAGGCCGGGTCTCACACCCTCCAGAGCAT  
GTACGGCTGCGACGTGGGGCCGGACGGGCGCCTCCTCCGCGGGCATAACCAGTACGCCTACGACGGCAAGGATTA  
CATCGCCCTGAACGAGGACCTGCGCTCCTGGACCGCGGCGGACACCGCGGCTCAGATCACCCAGCGCAAGTGGGA  
GGCGGCCCGTGTGGCGGAGCAGGACAGAGCCTACCTGGAGGGCACGTGCGTGGAGTGGCTCCGCAGATACCTGGA  
GAACGGGAAGGACACGCTGGAGCGCGCGGACCCCCCAAAGACACACGTGACCCACCACCCCATCTCTGACCATGA  
GGCCACCCTGAGGTGCTGGGCCCTGGGCTTCTACCCTGCGGAGATCACACTGACCTGGCAGCGGGATGGCGAGGA  
CCAAACTCAGGACACTGAGCTTGTGGAGACCAGACCAGCAGGAGATAGAACCTTCCAGAAGTGGGCAGCTGTGGT  
GGTGCTTCTGGAGAAGAGCAGAGATACACATGCCATGTACAGCATGAGGGGCTGCCGAAGCCCCCTCACCCCTGAG  
ATGGGAGCCGTCTTCCAGTCCACCGTCCCCATCGTGGGCATTGTTGCTGGCCTGGCTGTCTAGCAGTTGTGGT  
CATCGGAGCTGTGGTCGCTGCTGTGATGTGTAGGAGGAAGAGCTCAGGTGGAAAAGGAGGGAGCTACTCTCAGGC  
TGCGTGCAGCGACAGTGCCAGGGCTCTGATGTGTCTCTCACAGCTTGAAAAGCCTGAGACAGCTGTCTTGTGAG  
GGACTGAGATGCAGGATTTCTTCACGCCTCCCCTTGTGACTTCAAGAGCCTCTGGCATCTCTTTCTGCAAAGGC  
ACCTGAATGTGTCTGCGTCCCTGTTAGCATAATGTGAGGAGGTGGAGAGACAGCCCACCCCTTGTGTCCACTGTGA  
CCCCTGTTCCCATGCTGACCTGTGTTTCTCCCCAG

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**FIGURE 1989**

MLVMAPRTVLLLLSAALALTETWAGSHSMRYFDTAMSRPGRGEPRFISVG YVDDTQFVRFDSDAASPREEPRAPW  
IEQEGPEYWDRNTQIFKTNTQTDRESLRNLRGYYNQSEAGSHTLQSMYGCDVGPDGRLLRGHNQYAYDGKDYIAL  
NEDLRSWTAADTAAQITQRKWEAARVAEQDRAYLEGTCVEWLRRYLENGKDTLERADPPKTHVTHHPISDHEATL  
RCWALGFYPAEITLTWQRDGEDQTQDTEL VETR PAGDRIFQKWA AVVVP SGEEQRYTCHVQHEGLPKPLTLR WEP  
SSQSTVPIVGIVAGLAVLAVV VIGAVVA AVMCRRKSSGGKGGSYSQAACSDSAQGS DVSLTA

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**FIGURE 1990**

GCGTGATGTCTCACAGAAAGTTCTCCACTCCCAGACATGGGTCCCTCGGCTTCCTGCCTTGGAAGCGCAGCAGCA  
GGCATTGTGGGAAGGTGAAGAGCTTCCCTAAGGATGACCCGTCCAAGCCGGTCCACCTCACAGCCTTCCTGGGAT  
ACAAGGCTGGCATGACCCACATCGTGCGGGCTCTGGAGAAGATTGACCTTAAGTTCATTGACACCCCTCCAAGT  
TTGGCCATGGCCACTTCCAGACCATGGAGGAGAAGAAAGCATTTCATGGGACCACTCAAGAAAGACCGAATTGCAA  
AGGAAGAAGGAGCTTAATGCTGGGAACAGATATTGCAACTGGTGGGATCTCAATAAAAGTTATTTTCCA

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**FIGURE 1991**

MSHRKFSTPRHGSLGFLPWKRSSRHCGKVKSFPKDDPSKPVHLTAFLGYKAGMTHIVRALEKIDLKFIDTPSKFG  
HGHFQTMEEKKAFMGPLKKDRIAKEEGA



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**FIGURE 1992**

ATTCTCCCCAGAGGCCGAGATGCGGGTCATGGCGCCCCGAGCCCTCCTCCTGCTGCTCTCGGGAGGCCCTGGCCCT  
GACCGAGACCTGGGCCTGCTCCCACTCCATGAGGTATTTGACACCGCCGTGTCCCGGCCCGGCCGCGGAGAGCC  
CCGCTTCATCTCAGTGGGCTACGTGGACGACACGCAGTTTCGTGCGGTTTCGACAGCGACGCCGCGAGTCCGAGAGG  
GGAGCCGCGGGCGCCGTGGGTGGAGCAGGAGGGGCCGGAGTATTGGGACCGGGAGACACAGAACTACAAGCGCCA  
GGCACAGGCTGACCGAGTGAGCCTGCGGAACCTGCGCGGCTACTACAACCAGAGCGAGGACGGGTCTCACACCCT  
CCAGAGGATGTATGGCTGCGACCTGGGGCCCCGACGGGCGCCTCCTCCGCGGGTATGACCAGTCCGCCTACGACGG  
CAAGGATTACATCGCCCTGAACGAGGACCTGCGCTCCTGGACCGCCGCGGACACCGCGGGCTCAGATCACCCAGCG  
CAAGTTGGAGGCGGCCCGTGC GGCGGAGCAGCTGAGAGCCTACCTGGAGGGCACGTGCGTGGAGTGGCTCCGCAG  
ATACCTGGAGAACGGGAAGGAGACGCTGCAGCGCGCAGAACCCCCAAAGACACACGTGACCCACCACCCCTCTC  
TGACCATGAGGCCACCCCTGAGGTGCTGGGCCCTGGGCTTCTACCCTGCGGAGATCACACTGACCTGGCAGCGGGA  
TGGGGAGGACCAGACCCAGGACACCGAGCTTGTGGAGACCAGGCCAGCAGGAGATGGAACCTTCCAGAAGTGGGC  
AGCTGTGGTGGTGCCTTCTGGACAAGAGCAGAGATACACGTGCCATATGCAGCACGAGGGGCTGCAAGAGCCCT  
CACCTGAGCTGGGAGCCATCTTCCAGCCACCATCCCCATCATGGGCATCGTTGCTGGCCTGGCTGTCCTGGT  
TGTCTAGCTGTCTTGGAGCTGTGGTCACCGCTATGATGTGTAGGAGGAAGAGCTCAGGGCATTTCCTTCCAC  
AGGTGGAAGAGGAGGGAGCTGCTCTCAGGCTGCGTGCAGCAACAGTGCCAGGGCTCTGATGAGTCTCTCATCAC  
TTGTAAAGCCTGAGACAGCTGCCTGTGTGGGACTGAGATGCAGGATTTCTTCACACCTCTCCTTTGTGACTTCAA  
GAGCCTCTGGCATCTCTTCTGCAAAGGCGTCTGAATGTGTCTGCGTTCTGTAGCATAATGTGAGGAGGTGGA  
GAGACAGCCCACCCCGTGTCACCGTGACCCCTGTCCCCACACTGACCTGTGTTCCCTCCCCGATCATCTTTCC  
TGTTCCAGAGAGGTGGGGCTGGATGTCTCCATCTCTGTCTCAAATTCATGGTGCAGTGAAGTCTTACT  
TCCCTAATGAAGTTAAGAACCTGAATATAAATTTGTGTTCTCAAATATTTGCTATGAAGCGTTGATGGATTAATT  
AAATAAGTCAATTCCTAGAAGTGGAGAGAGCAAATAAAGACCTGAGAACCTTCCAG

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**FIGURE 1993**

MRVMAPRALLLLLSGGLALTETWACSHSMRYFDTAVSRPGRGEPRFISVGIVDDTQFVRFDSDAASPRGEPRAPW  
VEQEGPEYWDRETQNYKRQAQADRVSLRNLRGYYNQSEDSHTLQRMYGCDLGPDGRLLRGYDQSAYDGKDYIAL  
NEDLRSWTAADTAAQITQRKLEAARAAEQRLRAYLEGTCVEWLRRYLENGKETLQRAEPPKTHVTHHPLSDHEATL  
RCWALGFYPAEITLTWQRDGEDQTQDTVELVETRPAGDGTQKWAAVVVP SGQEQRYTCHMQHEGLQEPLTLSWEP  
SSQPTIPIMGIVAGLAVLVVLAVLGAVVTAMMCRRKSSGHFLPTGGKGGSCSQAACSN SAQGSDESLITCKA

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**FIGURE 1994**

GGAAAGGTGTACGCAGGCGCAGTGGCGTCTAAATTTGGGCCCCTAAATGCGTCGGAGCATCTCCGCGCCCAGGC  
GGCTCCTCCTCACTGCGGCAACCCGGGAAAACCTTGTGAACTAATCAGAAAAAGTGAAGGCGGGGAGATCTTGGGG  
CGCTGTCCAATGGCGCGGAAGAGAACAAATGAGCTGGCCAATCGGGAACGGCACGGGGGCGGGCTCGCTCGGCGC  
GAAGTTCGGGCCCCGGGAATTCGAAGGAGGGGTAGGCGCTGCCGCGCGCAGAGGCCGCGCCCCCTCTGGCCCCG  
GCTTCTTGGCTGTCAAACAGATGCAGCAACGTCGGCTCCTGCCGAGGAGCCCAAGGGGTCCCGGGATCCGCCGCA  
CAGGCTGGCACTGCTTGAAGAGGAGGCTACTCGGAGACTGCGCCGCGCGGGTAGATCCGAAACGGGGCTGGGGCG  
GAGTGGGAAAAGGCCGGGTATGCCTTGATGATCGCGGGGAGCTCCTTCTGTTTTTATCCACCTAGAGAAGCC  
GGGAAGTAGGGGTTTAGGTCCAATTTGTTGGAGTACTTAAGGACTCGTTTGCATTTCTTTTGGGGGATGACAGT  
GGATTCAATTGCCCTCGGAGGTTCAACCAGTTATGAGTGAGGGATTGGCCAGAAGATCGGGGCGCAGGCAAGCAGG  
AGTGCTCTATTAGGATAAGCAAGTTTGACAGGAAGAAGCTGCTCTTCTCCGAATTACACAGAGGTGATGTGTTTCG  
TATTGCACGTAGACGTGTGTATAACAGGACCTCCTTCCCCGCGCCCCGCCACCCCGACACACACAGGAGCTGCCT  
AAAGTATCCTTGCTTGAGATTGGAGGCTCCCCAAATATTTTGTGATCTGAGGATCCAGCTCAAGTGAGGTGCC  
ATAGGACGTGTTCTGAGTTTGATTGCACGGAGACCTTCTGGAATTTTTCATTTGCAAGTCGGCTTAACCAAT  
TTTGATTGAGTCTAGGCTGCTTGCACTCTGAATTTGGGCTATTAGGTAGTGTGCTCAAAGTTGAAACCGCAT  
ACAGCACAACCTCAAGTTTGCATCAGACTGGGAAGCGAACTTAAGCCAGCGGTGCGTGGCCAGGAGTGGGAAAGG  
AAATGGATGCCTGAAGTGAAGAGGTGGTGCAGAGGGGGCACC GCCCATGCTGCCCTGCTTCCAAGTCTGCGCA  
TAGGGGGCGGCAGGGGCGGTGATCTCTACACCTTCCACCCCCCGCGGGGCTGGCTGCACCTATCGCTTGGGCC  
ACAGGGCCGACCTGTGTGATGTGGCCCTGCGGCCCCAGCAGGAGCCTGGCCTCATCTCTGGGATCCACGCCGAAC  
TGCATGCCGAGCCCCGGGTGATGACTGGAGGGTCAGCCTGGAAGACCACAGCAGCCAAGGTGAGCATTAAAGCAG  
GGCAGCTTTGCCCTGGGTGGTTGAAGCGCCAGGCTGGAATGAGTAAGGTCTCCACAAGACCCTGCTGCCTGCCT  
CCCATACTCCCATCAGATTGGATGGATAGTCGTGGTCCAGACCTTCATCTTCCCACCAGAAGTGTGCACAGTCAG  
AAGCTCTCTGCCAGACTGACCCTTTTTGGTCCCGTTAGCTCATAACAGGACCTGGGATATCATCAGAAAGATATC  
ACAGTGGGGATGTTCTGAGGCCACTAGAGGCCAAGTTTAGACTTGATTAGTTTCCAGCTTTGCTGAGGCACTCT  
GTCCTGGGTTAGGGCAGTTCTATGTTGAATAATGTTTTAATAATCTGGGCATGTCTTCTCCGTGACTTGAGG  
CAGTTAGCCTCAGAAAGCCTAGATTACATTTGAGTTTTGCCACTGCCCTCTTGGTAAAGTCAGCTGTAGGAGTGT  
TATGGTTATTAGACTATAGTAGCCAACATTCATCTAGTGCTTACTGTTATGAGCCAGGCCCTATTTTAAGTGTAT  
TGAATGTAGGTGGTACTAATATTATCCTCATTTACAGTAAAGGAAAAATGAGGCACAAAGAGGTTAAGGAACCTGT  
CCAGGGCTGGGCATGGTGGTTTACACCTATAATCCAGCACTTTGGGAGGCTAAGGCAGGGTGGATCACTTGAGCT  
CAGGAGTTCGAGACCAGCCTGGGCAACATGGTGAAAACCTGTCTCTACCAAAAAATTAATTAATTTTTTAAAAAA  
AGCCTGGGCGCGGTGGCTCACGCCTGTAATCCAGCACTTTGGGAGGCCGAGATGGGCAGATCACGAGGTCAGGA  
GTTGAGACCATCCTGACCAACATGTTGAAACCCCATCTGTGCTGAAAAAAAATACAAAATTAGCCAGGTGTG  
GTGGCGTGCACCTGTAACCCAGCTACTCAGGAGGCTGAAGCAGCAGAATCACTTGAACCCGGGAGGCGGAGGTT  
GCAGTGAGCTGAGATCGCACCCTGCACTCCAGCTTGGGCGACAGAGCGAGACTCCATCTCAAACAAACAAACAA  
ACCAAAAAGCTTGCCAGGGTCACATAACTGGTAAGTGGTAGAGCTAGGATCTGAACGAGCTGGAGCTGGGGGAGA  
GTGAGCATGTTTGAAGTGGACCTTAGGGCGGGGCACGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGC  
TGAGGCGGGCAGATCAGGAGGTAGGAGTATGAGACCAGCCTGGCCAACATGGTAAACCCCTGTCTCTGCTAAAA  
ATAAAAAAATTAGCCAGACGTGGTGGCACATGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATTGC  
TTGAACCTGGGAGGCGGTTCAAGCTTGGGCAATAGAGCAAACTCCATC

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**FIGURE 1995**

TTGGTGGATTCCCTCAGTCCCTGCCGCCGCGGGGCGCCCTGGGATAGCGGCGGGGCTCCTGAACAGATCTCGGCC  
CCTTTCCAAACACTCCTGATGCCTCATTTCCTCTCGCTTCTTTTCGACCACCATTTCGGGGGCTGAGGCACTCA  
CGGGGCTCCCCAGGTTTCACTCCGTTTCTACACAGTCGGAGCCCCATGGATCTCCCATCTCCCGGAGGAACCGT  
GAAGCCAAACAGAAGCGCTGCGAGAGAAGCAGGCTACTCTGGAGGCTGAGATAGCAGGGGAGAGCAAGTCACCT  
GCAGAAATCCATTAAAGCCTGGAGGCCTAAGGAGTTAGTATTGTATGAAATCCCTACGAAACCCGGTGAAAAGAAA  
GATGTCTCTGGGCCCCTGCTCCTGCATACAGCCCCGATATGTTGAGGCTGCCTGGTACCCGTGGTGGGTACGA  
GAGGGCTTCTTCAAACCAGAATATCAGGCCCGGCTGCCCAAGCTACAGGGGAGACCTTTTCCATGTGTATCCCA  
CCTCCCAATGTCACTGGCTCCCTGCACATTGGCCACGCACTCACGGTGGCCATACAGGATGCCCTCGTGCCTGG  
CACCGGATGCGTGGGGATCAAGTGCTGTGGGTCCCTGGTTTCAGATCATGCAGGAATTGCTACACAAGCTGTGGTG  
GAGAAACAACCTGTGGAAGGAACGGGGAGTGAGGAGACATGAGCTGAGCCGGGAGGCCTTCCTTAGGGAGGTGTGG  
CAGTGGAAGGAGGCGAAAGGTGGAGAGATCTGTGAGCAGCTGCGAGCTCTGGGTGCCTCCCTGGACTGGGATCGA  
GAGTGTTTTACCATGGATGTTGGCTCCTCAGTGGCTGTGACTGAAGCTTTTGTGCGGCTCTACAAGGCGGGGTTG  
CTGTACCGGAACCATCAGCTTGTCAACTGGTCATGTGCTTTAAGATCAGCCATCTCGGACATTGAGGTGGAGAAC  
CGGCCCCCTGCCTGGCCACACACAGCTTCGACTGCCTGGCTGCCCAACCCCGTGTCTTTTGGCTCCTATTTTCT  
GTTGCCCTTCCCGTGGATGGAGAGCCTGATGCAGAGGTTGTGGTAGGAACCACAAGGCCAGAGACGCTGCCTGGA  
GATGTGGCTGTGGCCGTTTCATCCAGACGACTCGCGATACACACATCTACACGGGCGACAGCTTCGTACCCCTTG  
ATGGGGCAGCCTCTTCCCTCATCACAGACTATGCTGTTTCAGCCACATGTGGGCACGGGGGAGTGAAGGTGACT  
CCAGCTCACAGTCTCGCGATGCTGAGATGGGGGCCGACATGGCTTGAGCCCCCTGAATGTCTATTGCGGAGGAT  
GGGACCATGACCTCCCTCTGCGGGGACTGGCTGCAGGGTCTTACCGGTTTGTGGCCCGGGAAGATAATGTCT  
GTGCTGAGTGAATGGGGCCTGTTCCGGGGCTCCAGAACCACCCCATGGTACTGCCCATCTGCAGCCGTTCTGGG  
GATGTGATAGAATACCTGCTGAAGAACCAGTGGTTTGTCCGCTGCCAGGAAATGGGGGCCGAGCTGCCAAGGCT  
GTGGAGTCGGGGGCCCTGGAGCTCAGTCCCTCCTTCCACCAGAAGAAGTGGCAGCACTGGTTTTCATATTGGG  
GACTGGTGTGTCTCCCGGACAGCTGTGGTGGGGCCATCAGATTCCAGCCTACCTGGTGTAGAGGACCATGCGCAG  
GGAGAAGAGGACTGTTGGGTGGTGGGCGGTGAGAGGCTGAGGCCAGAGAGGTAGCAGCGGAAGTACAGGGAGG  
CCAGGGGCAGAGCTGACCCTGGAGAGGGATCCTGATGTCTAGACACATGGTTTCTTCTGCCCTGTTCCCTTT  
TCTGCCCTGGGCTGGCCCCAAGAGACCCAGACCTTGCTCGTTTCTACCCCTGTCACTTTTGGAACGGGCAGC  
GACCTTCTGCTGTTCTGGGTGGGCCGATGGTTCATGTTGGGGACCCAGCTCACAGGGCAGCTGCCCTTCAGCAAG  
GTGCTTCTTCATCCCATGGTTTCGGGACAGGCAGGGCCGAAGATGAGCAAGTCCCTGGGGAATGTGCTGGACCCA  
AGAGACATCATCAGTGGGGTGGAGATGCAGGTGCTGCAGGAAAAGCTGAGAAGCGGAAATTTGGACCTGCAGAG  
CTGGCCATTGTGGCTGCAGCACAGAAAAAGGACTTTCTCACGGGATCCCTGAGTGTGGGACAGATGCCCTGAGA  
TTCACACTCTGCTCCCATGGAGTTTCAGGCGGGCGACTTGCACCTGTGAGTCTCTGAGGTCCAGAGCTGCCGACAT  
TTCTGCAACAAGATCTGGAATGCTCTTCGCTTTATCCTCAATGCTTTAGGGGAGAAATTTGTGCCACAGCTGCT  
GAGGAGCTGTCTCCCTCCTCCCGATGGATGCCTGGATCCTGAGCCGCTTGCCCTGGCTGCCAGGAGTGTGAG  
CGGGGCTTCTCACCCGAGAGCTCTCGCTCGTCACTCATGCCCTGCACCACTTCTGGCTTCAACCTCTGTGAC  
GTCTACCTGGAGGCTGTGAAGCCCGTGCTGTGGCACTCGCCCCGCCCCCTGGGGCCCCCTCAGGTCCGTGTCTCC  
TGCGCTGACCTCGGCCCTCCGCTCCTGGCCCCACTGATGCCCTTCTGGCTGAAGAGCTCTGGCAGAGGCTGCC  
CCAGGCTGGTTGCCCCCTGCCCCAGCATCTCGGTTGCCCCCTACCCAGCGCTGCAGCTTGGAGCACTGG  
CGCCAGCCAGAGCTGGAGCGGCGCTTCTCCCGGTCCAAGAGGTGCTGCAGGTGCTAAGGGCTCTCCGAGCCAG  
TACCAGCTCACAAAGCCCGGCCCCGAGTGCTGCTGCAGAGCTCAGAGCCTGGGGACAGGGCCTCTTCGAGGCC  
TTCTTGGAGCCCCCTGGGACCCCTGGGCTACTGTGGGGCTGTGGGCTGTTACCCCCAGGCGCAGCAGCTCCCTCC  
GGCTGGGCCCAGGCTCCACTCAGTGACACGGCTCAAGTCTACATGGAGCTGCAGGGCCTGGTGGACCCGACATC  
CAGCTACCTCTGTAGCCGCCCGAAGGTACAAGTTGAGAAGCAGCTTGACAGCCTCACAGCCAGGACCCCATCA  
GAAGGGGAGGCAGGACTCAGAGGCAACAAAAGCTTTCTTCCCTCCAGCTGGAATTGTCAAAACTGGACAAGGCA  
GCCTCTACCTCCGGCAGCTGATGGATGAGCCTCCAGCCCCAGGGAGCCCGAGCTCTAACTCATCATCCCCATC  
AGTTTTCTCCCTCTCAGACCTGTCTTTGAGGACAAACAGATTTGTGAGCTGTGAGGGTGCAGTGGGACGTCAGA  
GACTATGTGGTCCATCGCCTTATTGTGTAATGAGGACACAGACTGGCTTGGTGCAGTACTGTGGTGTCTT  
GAGATGCTCACATTACTGCCCGGCTGCCTCCCACTGGAAGTCTGGGAATGAGGAGATTGAGATAAACTTTTGA  
AATCCC

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**FIGURE 1996**

MGQPLPLITDYAVQPHVGTGAVKVTPAHSPADAEMGARHGLSPLNVIAEDGTMTSLCGDWLQGLHRFVAREKIMS  
VLSEWGLFRGLQNHMPVLPICSRSGDVIEYLLKNQWFVRCQEMGARAANKAVESGALELSPSFHQKNWQHWFHSHIG  
DWCVSRQLWWGHQIPAYLVVEDHAQGEEDCWVVGRRSEAEAREVAAELTGRPGAELTLERDPDVLDTWFSALFPF  
SALGWPQETPDLARFYPLSLLETGSDLLLFVWGRMVMLGTQLTGQLPFSKVLLHPMVRDRQGRKMSKSLGNVLDP  
RDIISGVEMQVLQEKLRSGNLDPAELAIVAAAQKKDFPHGIPECGTDALRFTLC SHGVQAGDLHLSVSEVQSCRH  
FCNKIWNALRFILNALGEKFVPQPAEELSPSSPMDAWILSRLALAAQECERGFLTRELSLVTHALHHFWLHNLCD  
VYLEAVKPVWLWHSRPLGPPQVLFSCADLGLRLLAPLMPFLAEELWQRLPPRPGCPPAPSISVAPYPSACSLEHW  
RQPELERRFSRVQEVVQVLRALRATYQLTKARPRVLLQSSEPGDQGLFEAFLEPLGTLGYCGAVGLLPPGAAAPS  
GWAQAPLSDTAQVYMELQGLVDPQIQPLLAARRYKLQKQLDSL TARTPSEGEAGTQRQQLSSLQLELSKLDKA  
ASHLRQLMDEPPAPGSPEL

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**FIGURE 1997**

TCCCATCTTTTCTCGCATTTTTTTCACCATCTTTCCCTCAATCTCCAGGAGCCAATGCGAGACTTTTGGCTCCGA  
TTAAGCGACGGCCCCGAGACTTGGGGTGCGCGAGGAGGATCGACAGAGTGGTGATGGAGAGCACCCCTTCAAGGGG  
ACTGAACCGAGTACACCTACAATGCAGGAATCTGCAGGAATTCTTAGGGGGCTGAGCCCTGGGGTATTGGACCG  
ATTGTATGGGCACCCCTGCCACATGTCTGGCTGTCTTCAGGGAGCTCCCATCCTTGGCTAAGAACTGGGTGATGCG  
GATGCTCTTTCTGGAGCAGCCTTTGCCACAGGCTGCTGTAGCTCTGTGGGTAAAGAAGGAATTCAGCAAGGCTCA  
GGAGGAAAGTACAGGGCTGCTGAGCGGCCCTCCGGATCTGGCACACCCAGCTGCTCCCAGGCGGGCTCCAGGGCCT  
CATCCTCAACCCCATTTTCCGCCAGAACCTCCGCATTGCCCTTCTGGGTGGGGGAAGGCCTGGTCTGATGACAC  
AAGTCAGCTGGGACCAGACAAGCATGCCCGGGACGTTCCCTCCCTTGACAAGTACGCCGAGGAGCGATGGGAGGT  
GGTCTTGCACTTCATGGTGGGCTCCCCAGTGCAGCTGTGAGCCAGGACTTGGCTCAGCTCCTCAGCCAGGCTGG  
GCTCATGAAGAGTACTGAACCTGGAGAGCCGCCCTGCATTACTTCCGCTGGCTTCCAGTTCCTGTTGCTGGACAC  
CCCGGCTCAGCTCTGGTACTTTATGTTGCAGTATTTGCAGACAGCCCAGAGCCGGGGCATGGACCTGGTAGAGAT  
TCTCTCCTTCTCTCCAGCTCAGCTTCTCTACTCTGGGCAAGGATTACTCTGTGGAAGGTATGAGTGATTCTCT  
GTTGAACCTTCTGCAACATCTGCGTGAGTTTGGGCTTGTTTTCCAGAGGAAGAGGAAATCTCGGCGTTACTACCC  
CACACGCCCTGGCCATCAATCTCTCATCAGGTGTCTCTGGAGCTGGGGGCACTGTGCATCAGCCAGGTTTCATTGT  
CGTGGAAACCAATTACCGACTGTATGCCTACACGGAGTCGGAGCTGCAGATTGCCCTCATTGCCCTCTTCTCTGA  
GATGCTCTATCGGTTCCCCAACATGGTGGTGGCGCAGGTGACCCGGGAGAGTGTGCAGCAGGCAATCGCCAGTGG  
CATCACAGCCCAGCAGATAATCCATTTCCTAAGGACAAGAGCCCACCCAGTGATGCTCAAACAGACACCTGTGCT  
GCCCCCACCATCACCGACCAGATCCGGCTCTGGGAGCTGGAAAGGGACAGACTCCGGTTCAGTGAGGGTGTCTCT  
GTATAACCAGTTCCTGTGCAAGTGGACTTTGAGCTGCTGCTGGCCCACGCGCGGGAGCTGGGCGTGCTCGTGTT  
CGAGAACTCGGCCAAGCGGGCTCATGGTGGTGACCCGGCCGGGCACAGCGACGTCAAGCGCTTTTGGAAGCGGCA  
GAAACATAGCTCCTGAGAGCGCGGGACTTGGACACGGACCTCGGCGGGCGGGACTGGGCGGGGCGGGGCATCAGA  
ACTCAGGTGTTTTTTATTTACGCGTCAGGGCTTTTCTTGTTTAATAAGTTATGATAGCT

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**FIGURE 1998**

MESTPSRGLNRVHLQCRNLQEFLLGGLSPGVLDRLYGHPATCLAVFRELP SLAKNWVMRMLFLEQPLPQAAVALWV  
KKEFSKAQEESTGLLSGLRIWHTQLLPGGLOGLILNPIFRQNLRIALLGGGKAWSDDTSQLGPDKHARDVPSLDK  
YAEERWEVVLHFMVGSPSAAVSQDLAQLLSQAGLMKSTEPGEPPCITSAGFQFLLLDTPAQLWYFMLQYLQTAQS  
RGMDLVEILSFLFQLSFSTLGKDYSVEGMSDSLNLFLQHLREFGLVFQRKRKSRRYYPTRLAINLSSGVSGAGGT  
VHQPGFIVVETNYRLYAYTESELQIALIALFSEMLYRFPNMVVAQVTRESVQQAIASGITAQQIIHFLRTRAHPV  
MLKQTPVLPPTITDQIRLWELERDRLRFTEGVLYNQFLSQVDFELL LAHARELGVLVFENSAKRLMVVTPAGHSD  
VKRFWKRQKHSS

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**FIGURE 1999A**

TTAGGAAGTTATTTAACTGATCTCTGCCCTAGTTTCTTCATGTGTTAAATATGGATAGTAATAGTATCTACCTTA  
TGAAGTGACTGTGAAGATAAAATTATGGATTCTGTTTAAAGGGTTTAGGCCAGTGTCTGGCACAGGGGAAGCATTCT  
TAAAAATATAGCTGATGCTGTTAAACAATGACTGTTGTTGTTGTTTTACTGTTATTATCCCCAAAGCGGCCATT  
CTGTCTGTTGCTGTCAGCTATGACTCAGTCCCCTGATTAACTTACGCACCACCCATTTTATCCCCTGCAGAGATG  
CTGCCCCCACCCTTAGGCCCGAGGGATCAGGAGCTATGGGACCAGAGGCCCTGTCATCTTTACTGCTGCTGCT  
CTTGGTGGCAAGTGGAGATGCTGACATGAAGGGACATTTTGATCCTGCCAAGTGCCGCTATGCCCTGGGCATGCA  
GGACCGGACCATCCCAGACAGTGACATCTCTGCTTCCAGCTCCTGGTCAGATTCCACTGCCGCCGCCACAGCAG  
GTTGGAGAGCAGTGACGGGGATGGGGCCTGGTGCCCCGAGGGTCGGTGTTTCCCAAGGAGGAGGAGTACTTGCA  
GGTGGATCTACAACGACTGCACCTGGTGGCTCTGGTGGGCACCCAGGGACGGCATGCCGGGGGCTGGGCAAGGA  
GTTCTCCCGGAGCTACCGGCTGCGTTACTCCCGGATGGTGCCTGCTGGATGGGCTGGAAGGACCGCTGGGGTCA  
GGAGGTGATCTCAGGCAATGAGGACCCTGAGGGAGTGGTGTGAAGGACCTGGGGCCCCCATGGTGGCCGACT  
GGTTCGCTTCTACCCCCGGGCTGACCGGGTCATGAGCGTCTGTCTGCGGGTAGAGCTCTATGGCTGCCTCTGGAG  
GGATGGACTCCTGTCTTACACCGCCCTGTGGGGCAGACAATGTATTTATCTGAGGCCGTGTACCTCAACGACTC  
CACCTATGACGGACATACCGTGGGCGGACTGCAGTATGGGGTCTGGGCCAGCTGGCAGATGGTGTGGTGGGGCT  
GGATGACTTTAGGAAGAGTCAGGAGCTGCGGGTCTGGCCAGGCTATGACTATGTGGGATGGAGCAACCACAGCTT  
CTCCAGTGGCTATGTGGAGATGGAGTTTGAGTTTGACCGCTGAGGGCCTTCCAGGCTATGCAGGTCCACTGTAA  
CAACATGCACACGCTGGGAGCCCGTCTGCCTGGCGGGGTGGAATGTCGCTTCCGGCGTGGCCCTGCCATGGCCTG  
GGAGGGGGAGCCCATGCGCCACAACCTAGGGGGCAACCTGGGGGACCCAGAGCCCGGGCTGTCTCAGTGCCCT  
TGGCGGGCGTGTGGCTCGCTTCTGCAGTGCCGCTTCTCTTTGCGGGGCGCTGGTTACTCTTCAGCGAAATCTC  
CTTCATCTCTGATGTGGTGAACAATTCTCTCCGGCACTGGGAGGCACCTTCCCGCCAGCCCCCTGGTGGCCGCC  
TGGCCACCTCCACCAACTTCAGCAGCTTGGAGCTGGAGCCAGAGGCCAGCAGCCCGTGGCCAAGGCCGAGGG  
GAGCCCGACCGCCATCCTCATCGGCTGCCTGGTGGCCATCATCCTGCTCCTGCTGCTCATCATTGCCCTCATGCT  
CTGGCGGCTGCACTGGCGCAGGCTCCTCAGCAAGGCTGAACGGAGGGTGTGGAAGAGGAGCTGACGGTTCACCT  
CTCTGTCCCTGGGGACACTATCCTCATCAACAACCGCCAGGCTCTAGAGAGCCACCCCGTACCAGGAGCCCG  
GCCTCGTGGGAATCCGCCCCACTCCGCTCCCTGTGTCCCAATGGCTCTGCGTTGCTGCTCTCCAATCCAGCCTA  
CCGCTCCTTCTGGCCACTTACGCCCCGTCCCCCTCGAGGGCCCGGGCCCCCACACCCGCTGGGCCAAACCCAC  
CAACACCCAGGCCTACAGTGGGGACTATATGGAGCCTGAGAAGCCAGGCGCCCCGCTTCTGCCCCACCTCCCCA  
GAACAGCGTCCCCCATTATGCCGAGGCTGACATTGTTACCCTGCAGGGCGTCACCGGGGGCAACACCTATGCTGT  
GCCTGCACTGCCCCCAGGGGCAGTCGGGGATGGGCCCCCGAGAGTGGATTTCCTCGATCTCGACTCCGCTTCAA  
GGAGAAGCTTGGCGAGGGCCAGTTGGGGAGGTGCACCTGTGTGAGGTGACAGCCCTCAAGATCTGGTTAGTCT  
TGATTTCCCCCTTAATGTGCGTAAGGGACACCCTTTGCTGGTAGCTGTCAAGATCTTACGGCCAGATGCCACCA  
GAATGCCAGGAATGATTTCTGAAAGAGGTGAAGATCATGTCGAGGCTCAAGGACCCAAACATCATTGGCTGCT  
GGGCGTGTGTGTGTCAGGACGACCCCTCTGCATGATTACTGACTACATGGAGAACGGCGACCTCAACCAGTTCCT  
CAGTGCCCAACAGCTGGAGGACAAGGCAGCCGAGGGGGCCCTGGGGACGGGCAGGCTGCGCAGGGGGCCACCAT  
CAGCTACCCAATGCTGCTGCATGTGGCAGCCAGATCGCCTCCGGCATGCGCTATCTGGCCACACTCAACTTTGT  
ACATCGGGACCTGGCCACGCGGAAGTGCCTAGTTGGGGAAAATTTACCATCAAAATCGCAGACTTTGGCATGAG  
CCGGAACCTCTATGCTGGGGACTATTACCGTGTGCAGGGCCGGGCAGTGTGCCCATCCGCTGGATGGCCTGGGA  
GTGCATCCTCATGGGGAAGTTACGACTGCGAGTGACGTGTGGGCCTTTGGTGTGACCCTGTGGGAGGTGCTGAT  
GCTCTGTAGGGCCAGCCCTTTGGGCAGCTCACCGACGAGCAGGTCATCGAGAACCGGGGGAGTTCTTCCGGGA  
CCAGGGCCGGCAGGTGTACCTGTCCCGGCCGCTGCCTGCCCGCAGGGCCTATATGAGCTGATGCTTCGGTGTCTG  
GAGCCGGGAGTCTGAGCAGCGACACCCCTTTTCCAGCTGCATCGGTTTCTGGCAGAGGATGCACTCAACACGGT  
GTGAATCACACATCCAGCTGCCCCCTCCCTCAGGGAGCGATCCAGGGGAAGCCAGTGACACTAAACAAGAGGACA  
CAATGGCACCTCTGCCCTTCCCTCCCGACAGCCCATCACCTCTAATAGAGGCAGTGAGACTGCAGGTGGGCTGG  
GCCACCCAGGGAGCTGATGCCCTTCTCCCTTCTGGACACACTCTCATGTCCCTTCTGTCTTCTTCTTCTTCT  
AGAAGCCCCTGTGCGCCACCCAGCTGGTCTGTGGATGGGATCCTCTCCACCCTCCTCTAGCCATCCCTTGGGGA  
AGGGTGGGGAGAAATATAGGATAGACACTGGACATGGCCATTGGAGCACCTGGGCCCCACTGGACAACACTGAT  
TCTTGGAGAGGTGGCTGCGCCCCCAGCTTCTCTCTCCCTGTACACACTGGACCCCACTGGCTGAGAATCTGGGG  
GTGAGGAGGACAAGAAGGAGAGGAAAATGTTTCTTGTGCCTGCTCCTGTACTTGTCTCAGCTTGGGCTTCTTC



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**FIGURE 1999B**

CTCCTCCATCACCTGAAACACTGGACCTGGGGGTAGCCCCGCCCCAGCCCTCAGTCACCCCCACTTCCCCTTGC  
AGTCTTGTAGCTAGAACTTCTCTAAGCCTATACGTTTCTGTGGAGTAAATATTGGGATTGGGGGGAAAGAGGGAG  
CAACGGCCCATAGCCTTGGGGTTGGACATCTCTAGTGTAGCTGCCACATTGATTTTCTATAATCACTTGGGGTT  
TGTACATTTTGGGGGGAGAGACACAGATTTTACACTAATATATGGACCTAGCTTGAGGCAATTTAATCCCCT  
GCACTAGGCAGGTAATAATAAAGGTTGAGTTTCCAC

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**FIGURE 2000**

CGCTGCTCCAGCCTCTGGGGCGCATTCCAACCTTCCAGCCTGCGACCTGCGGAGAAAAAAATTACTTATTTTCT  
TGCCCCATACATACCTTGAGGCGAGCAAAAAATTAAATTTTAACCATGAGGGAAATCGTGACATCCAGGCTGG  
TCAGTGTGGCAACCAGATCGGTGCCAAGTTCTGGGAGGTGATCAGTGATGAACATGGCATCGACCCACCGCTGT  
CTTCCGTGGTCGGATGTCCATGAAGGAGGTGATGAGCAGATGCTTAACGTGCAGACAAGAAGCAGCAGCTACTT  
TGTGGAATGGATCCCCAACAATGTCAAGACAGCCGTCTGTGACATCCCACCTCGTGGCCTCAAGATGGCAGTCAC  
CTTCATTGGCAATAGCACAGCCATCCAGGAGCTCTTCAAGCGCATCTCGGAGCAGTTCACTGCCATGTTCCGCCG  
GAAGGCCTTCCTCCACTGGTACACAGGCGAGGGCATGGACGAGATGGAGTTCACCGAGGCTGAGAGCAACATGAA  
CGACCTCGTCTCTGAGTATCAGCAGTACCAGGATGCCACCGCAGAAGAGGAGGAGGATTTCCGGTGAGGAGGCCGA  
AGAGGAGGCCCTAAGGCAGAGCCCCCATCACCTCAGGCTTCTCAGTTCCCTTAGCCGTCTTACTCAACTGCCCCTT  
TCCTCTCCCTCAGAATTTGTGTTTGCTGCCTCTATCTTGTGTTTTTGTGTTTTTCTTCTGGGGGGGTCTAGAACAG  
TGCCTGGCACATAGTAGGCGCTCAATAAATACTTGTTTGTGGAATGCTCCTCTCTCTTTCCACTCTGGGAAACC  
TAGGTTTCTGCCATTCTGG

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**FIGURE 2001**

MMAACDPRHGRYLTVAAVFHGRISMKEVDEQMLNVQKNSSYFVEWIPNNVKTAVCDIPPRGLKMAVTFIGNSSA  
IQELFKRILEQFTAMFGRKAFLHWYTGE GMD

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**FIGURE 2002**

ATGGCCCCCTGCACTGCTCCTGATCCCTGCTGCCCTCGCCTCTTTCATCCTGGCCTTTGGCACCGGAGTGGAGTTC  
GTGCGCTTTACCTCCCTTCGGCCACTTCTTGGAGGGATCCCGGAGTCTGGTGGTCCGGATGCCCGCCAGGGATGG  
CTGGCTGCCCTGCAGGACCGCAGCATCCTTGCCCCCTGGCATGGGATCTGGGGCTCCTGCTTCTATTTGTTGGG  
CAGCACAGCCTCATGGCAGCTGAAAGAGTGAAGGCATGGACATCCCGGTACTTTGGGGTCTTCAGAGGTCACTG  
TATGTGGCCTGCACTGCCCTGGCCTTGACGCTGGTGTATGCGGTACTGGGAGCCCATAACCAAAGGCCCTGTGTTG  
TGGGAGGCTCGGGCTGAGCCATGGGCCACCTGGGTGCCCTCCTCTGCTTTGTGCTCCATGTCATCTCCTGGCTC  
CTCATCTTTAGCATCCTTCTCGTCTTTGACTATGCTGAGCTCATGGGCCTCAAACAGGTATACTACCATGTGCTG  
GGGCTGGGCGAGCCTCTGGCCCTGAAGTCTCCCCGGGCTCTCAGACTCTTCTCCACCTGCGCCACCCAGTGTGT  
GTGGAGCTGCTGACAGTGTGTGGGTGGTGCCTACCCTGGGCACGGACCGTCTCCTCCTTGCTTTTCTCCTTACC  
CTCTACCTGGGCCTGGCTCACGGGCTTGATCAGCAAGACCTCCGCTACCTCCGGGCCCAGCTACAAAGAAAACCTC  
CACCTGCTCTCTCGGCCCCAGGATGGGGAGGCAGAGTGAGGAGCTCACTCTGGTTACAAGCCCTGTTCTTCTCTCT  
CCCGCTGAATTCTAAATCCTTAACATCCAGGCCCTGGCTGCTTCATGCCAGAGGCCCAAATCCATGGACTGAAGG  
AGATGCCCTTCTACTACTTGAGACTTTATTCTCTGGGTCCAGCTCCATAACCTAAATTCTGAGTTTCAGCCACT  
GAACTCCAAGGTCCACTTCTCACCAGCAAGGAAGAGTGGGGTATGGAAGTCATCTGTCCCTTCACTGTTTAGAGC  
ATGACACTCTCCCCCTCAACAGCCTCCTGAGAAGGAAAGGATCTGCCCTGACCACTCCCCCTGGCACTGTTACTTG  
CCTCTGCGCCTCAGGGGTCCCCCTTCTGCACCGCTGGCTTCCACTCCAAGAAGGTGGACCAGGGTCTGCAAGTTCA  
ACGGTCATAGCTGTCCCTCCAGGCCCAACCTTGCCCTCACCCTCCCGGCCCTAGTCTCTGCACCTCCTTAGGCC  
CTGCCTCTGGGCTCAGACCCCAACCTAGTCAAGGGGATTCTCCTGCTCTTAACTCGATGACTTGGGGCTCCCTGC  
TCTCCCGAGGAAGATGCTCTGCAGGAAAATAAAAGTCAGCCTTTTTTCTAC

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**FIGURE 2003**

MAPALLLIPAAALASFILAFGTGVEFVRFTSLRPLLGGIPESGGPDARQGWLAAALQDRSILAPLAWDLGLLLLLFVG  
QHSLMAAERVKAWTSRYFGVLQRSLYVACTALALQLVMRYWEPKGPVLWEARAEPWATWVPLLCFVLHVISWL  
LIFSILLVFDYAELMGLKQVYYHVLGLGEPLALKSPRALRLFSLRHPVCVELLTVLWVPTLGTDRLLLAFLLT  
LYLGLAHGLDQQLRYLRAQLQRKLHLLSRPDGEAE

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**FIGURE 2004A**

AGACAAAGCGGTCGCCGCCCCGCCGCCCCCTGGTCTCTGTCTCCGTCCCTCCTCCTTTGCTGCCTCTTTCCC  
TCCCTCCTCTCCCTCCCTCCTCCCTCCCTCCAGTCTCCGATCTCCCTCGGTCCCTCTCTCCTCCTCTTCTCTC  
TCTGGACGCCCCGGTCTCTCCGCACCCCTCCCCGGGGTCCCGCGGCTGTGAGTTGACTGAGGGGCTCAGACT  
TGGGGAGTGGGTGTCTCCTCGCCCTGTCTTGCTCCCGTCCCTGGCCCCGACCTTGGCTGTCTCCTCTTTGTGC  
CGAGATTGTCTGTGTGCGGCTACAGCGGGGTGGAGACGGCCGGCTCTGTACGGCTTCATGAGAGCGGGGACG  
GGGCGCAGGACTTGCAGGCGCCGGGAGAAGAGACATGGAGCCGGCCCTTGGCACTCTGGGGTTCGCGTGGGGCAG  
TCGGTGGGGGAGGCAGGCGGTGGTGACAGGACAGGGTGGGGGTGGACGCCAGGGTTCTGGGAACGCGCTGGCAGC  
CCTGACGCCCCGGTTCCGAAAGTCTCGGGGTGGGTATTTCCCCGACCCGCTCGGGGGCGGAGTGCGGGGCAG  
AGGGGTGGGGGTGGGGAGAGGCGTGGCCGAGCGGTGTGGAAGCGGAGCCGGGACCTTTGGGGCCCGCGCTGA  
GACGCGCCCGGTGTCTGCCGCCGCCCTCCTTTCCCTCTTCCCTGGTTTCCCTTCTCCTCTAGACCTGTTGCTC  
TCCGCCCCCTCCTTGCTTCCCCAACACCCCTCAGGTCCCGTTGCTTCCCTGCTTTCAGGGATTCTTGCTCCTT  
CCTTCCCACTAGCCTCCCTGGGGTATCGCTGAGGCAGCTGGCCTGCACCCAGGTTCCCTCACCCTGCCAC  
ATTTCTCTCTTCTCCCTCAGGCCAATTTCCTTTTCGCCCTTCTCTCTTTCTCACATCCTAGAGACGGTCTTT  
AATACGCATTAACCCTGTGTGCCACATCTGGCTCCTGCCCTCATTGCCTCCAATCCGGACTCTTCTCTCACAT  
CACCCCCACCACCCCAACTTGGGCTCACAACTTCTCTTCACTTTTCCATTTCCTCCAGTCTCTGCTTCCGTC  
TTTCCCTCTGTCTCATCCTTAGCCCTCTGCCCTGCTTTGTGTCCCACCTCTCCCCCTCCACTTCTCTCCTCC  
CACCTCAGTCTCACCCCCGGGTGTCTCACTCTCTGGAGCCTCTCCTTCTGTTCTCTGTCCCCAGTGCTCCCT  
ACCTCACCCTCAAGACGACCATGGCCACCATCCAGACTGGAAGCTACAGCTGCTAGCCCGCGCCGGCAGGAGG  
AGGCGTCCGTTTCGAGGCCGAGAGAAAGCAGAACGGGAGCGCCTGTCCAGATGCCAGCCTGGAAACGAGGGCTCC  
TGGAGCGCCGCCGGGCCAAGCTTGGGCTGTCCCTGGGGAGCCTAGCCCTGTGCTAGGGACTGTAGAGGCTGGAC  
CTCCAGACCCGGATGAGTCTGCGGTCTTCTGGAGGCCATCGGGCCAGTGACCCAGAACCGATTCTCCGGCAGG  
AGCGGCAGCAGCAGCAGCAACAACGGAGTGAAGAGCTGTAGCAGAGAGAAAGCCTGGGCCTCTGGAGG  
CCCCGGAGCGGAGACCCAGCCCTGGGGAGATGCGGGATCAGAGCCCCAAGGGAAGAGAGTCAAGAGAAGAGAGAC  
TAAGTCCGAGGGAGACCAGAGAGAGGAGGCTGGGGATAGGGGGAGCCCAAGAGTTGAGCCTGAGGCCTCTGGAGG  
CTCGGGACTGGAGGCAAGCCCAGGAGAGGTGGGAGACAGGAGCTCCCGACTGTGAGAGGCATGGAAATGGAGGC  
TGAGTCTTGAGAACTCCAGAGCGGAGTCTGAGACTAGCAGAGTCTCGAGAGCAAAGCCCCAGGAGAAAGAGG  
TGGAAAGTAGACTGAGCCAGGGGAATCTGCCTACCAGAAAGTTGGGCCTGACAGAGGCCCATAAATGGAGACCTG  
ACTCCAGAGAGTCTCAGGAACAGAGTTTGGTACAACCTGGAGGCAACAGAGTGGAGGCTGAGGTCAGGAGAAGAAA  
GACAAGACTACTCGGAAGAATGTGGGAGAAAAGAAGAGTGGCCAGTTCCAGGGGTAGCTCCAAAAGAGACTGCAG  
AGCTGTCCGAGACCCTGACAAGGGAGGCCCAAGGCAACAGTTCCGAGGAGTGGAGGCAGCAGAGCAGAGGCCTG  
TGGAAGATGGCGAGAGGGGCATGAAGCCAACAGAAGGGTGGAAATGGACCCTGAACTCCGGGAAGGCTCGAGAAT  
GGACACCCAGGGACATAGAGGCTCAAACCTCAGAACTAGAACCTCCAGAGTCAGCAGAGAAGCTTCTGGAATCTC  
CCGGTGTGGAGGCTGGAGAAGGGGAGGCTGAGAAGGAGGAGGCGGGGGCTCAGGGCAGGCCTCTGAGAGCCCTGC  
AGAACTGTCTGTGTGCCCTCCCCCTCCCACCAGAGGACGCTGGGACTGGAGGCCTGAGACAGCAGGAAGAGG  
AAGCAGTGGAGCTCCAGCCCCACCACCAGCCCTCTGTCTCCCCACCCCCAGCCCCAACTGCCCCCCAACCTC  
CTGGGGATCCCCCTCATGAGCCGCCTGTTCTATGGGGTGAAGGCAGGGCCAGGGGTGGGGGCCCCCGCCGAGTG  
GACACACCTTCAACGTCACCCCCGGCGGTCTGTGCCCTGCGACCCAGCCACCCCAACCTCTCCAGCCACAG  
TTGATGCTGCAGTCCCGGGGGCTGGGAAGAAGCGGTACCCAACCTGCCGAGGAGATCTTGTTCTGGGGGGCTACC  
TCCGTCTCAGCCGAGCTGCCTTGCCAAGGGGTCCCCGAAAGACACCACAAACAGCTTAAGATCTCCTTCAGCG  
AGACAGCCCTGGAGACCACGTACCAATACCCCTCCGAGAGTTCCGTACTGGAGGAGCTGGGCCCGGAGCCTGAGG  
TCCCCAGTGCCCCCAACCCTCCAGCAGCCCAACCCGACGACGAAGAGGATGAGGAAGAGCTGCTGCTGCTGCAGC  
CAGAGCTCCAGGGCGGGCTGCGCACCAAGGCCCTGATTGTGGATGAGTCTGCGCGCGGTGACCATCTTCCAACA  
TAGGGATATACCTCCCTCCTTCTTATACTGAAGATCCTGGAGCCCGGAAGATTACAGGGCAGACAGACCCTGATA  
ATGAGCCTGGCAGGGAAGGGCAACCAACATCTTGTAACCTTGCTTTCCCCACCCTGTTTCTGGGGGCAGAGCCAAT  
TGCCCAATTTCTACCTAATCCAAAGTCCCTGGTGTGGGTGGGGTTAAACGTGCTGGTGCATCCTAGGTATCCA  
AGAGTGAGCGCCAAGTCTGAGAAGGGGCACAGAATCCCTGGAGGGTGGAGATGGAGCACCTGCCCCCATGGC  
AGGGTACACTCTCCCCACAGCCTTCTCCCCACCATCCCGTGGGGACTCTCGGGATTTAAGCACTCGTCTCTCTG  
GGAGGCCAGACCCCACTCCATTTATAGGCACATCTCCTTCATTTCTAGGTCACTGCCCTTTGTTTACAGCTC

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**FIGURE 2004B**

CTGCCTCCTCCCTTGACCACAGCCTGGTTTACAAATTCCATCAGCTCCCAGCCCCACCTGCCAAAGTCCCAGGTT  
TACAAGCCACGCTTACTTGCTGTGTCTGCGTGGAATTCTCTCCTCTGTCCCCTCCAGTCTCCTCATTGGAGTGAC  
CTGAAGGTGTGGCTTCCTCCACTTTTTCTCAGTATTACTTTGCCTTAGTTTTCCCCAAGAGGGAAGGCTGGAACT  
CTTAACTCTGTACCCCTTGATAGTTATTTAATTCTGTTTCTCCTAGTGGTTCACAATTGAAGTGAATTGAGATGG  
TGTCGGGTGGCTAAGGAGACACCTCACCTCTCCTTCCCCATTGTGCCGCCTTTATCAATTGCCTGTTTTGTTTTG  
TTTGTTTTTTAACTTTCCATAATAAAATGGAGTTCTCTTC

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**FIGURE 2005**

MATIPDWKLQLLARRRQEEASVRGREKAERERLSQMPAWKRGLLERRRAKLGLSPGEPSPVLGTVEAGPPDPDES  
AVLLEAIGPVHQNRFIQERQQQQQQQRSEELLAERKPGPLEARERRPSPGEMRDQSPKGRESREERLSPRETR  
ERRLGIGGAQELSLRPLEARDWRQSPGEVGDRSSRLSEAWKWRLSPGETPERSLRLAESREQSPRRKEVESRLSP  
GESAYQKLGLTEAHKWRPDSRESQEQSLVQLEATEWRLRSGEERQDYSEECGRKEEWPVPGVAPKETAESETLT  
REAQGNSSAGVEAAEQRPVEDGERGMKPTGKWKTLNSGKAREWTPRDIEAQTKLEPPESAELLES PGVEAGE  
GEAEKEEAGAQQRPLRALQNCSSVPSPLPPEDAGTGGLRQEQEEAVELQPPPPAPLSPPPPAPTAPQPPGDPLMS  
RLFYGVKAGPGVGAPRRSGHTFTVNPRRSVPPATPATPTSPATVDAAVPGAGKKRYPTAEIILVLGGYLRLSRSC  
LAKGSPERHHKQLKISFSETALETYYQYPSESSVLEELGPEPEVPSAPNPPAAQPDDEEDEEELLLLQPELQGGGL  
RTKALIVDESCRR



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**FIGURE 2006A**

AGGTTTGAATTTTCTCGGAGAAAGACAGGCCGGCCACGAGGAAAAACAGAAACAAGCCGCAGCAACATCTAAGCCC  
TTGAAAGGATCCTGAGAGAGGGGGGAAAGGGAAAACAGCAGCCACCAGCCCAACCACTTGTGTCTTCTGCCCTT  
CCCACCTATCTTGCCACCCCACCAGCCCACGCTGCTTGGGACTTGAAATCTGTGGCCGAAGGACCGTCACTACA  
TAACTTCAAAAATAATCAACCACCCTCCCTTCCCAAACCACCCAAATTCATCTCATCCAGCGTTTACTTTTTTGAA  
TCCACTCAGAACTTTTTTCTGCGACCCCCCTCCCTAAATGGAGTTGGGTGGGGGGGAAATGAATACTGAGTTGGC  
CTTTATTTTTTAAAAGACTTTTTTGATCCAATGAGGCCCCCTAAATAATTGAGTTTTGGGTCTCGTTGGTTGTTT  
TATTTTTTTTCTCCAAATTTTACCCCTCCCCCTGAGCCCGAGGTGCTGACGTCGAAAAAATTGGATAAA  
ACCACCATCATGGGTTCCGGTCCCATAGACCCCAAAGAACTTCTCAAGGGCCTGGACAGCTTCCTTAACCGAGAT  
GGGGAAGTCAAAAGTGTGGATGGGATTTCAGATCTTCAGTTTGATGAAGGAAGCAGGAAAGATGGTGAGTCGA  
TGCCTTACTTGAACATTCTCCTGCAGACCCGTTTACCAGAAATATTGGTCAAATTTATTGACGTTGGCGGCTAC  
AACTTCTTAACAATTGGCTGACGATTCAAAGACAACCAACAACATTCCCTCCTCCAGCAAATTCTACTGACC  
CTGCAGCATCTACCGCTCACTGTAGACCATCTCAAGCAGAACAACACAGCTAACTGGTGAAGCAGCTGAGCAAG  
TCAAGTGAGGATGAAGAGCTCCGGAATTGGCCTCAGTCCTTGTGACGACTGGATGGCTGTCATCCGCTCTCAG  
AGCAGTACCCAGCCTGCTGAGAAAGATAAGAAGAAACGTAAAGATGAAGGAAAAAGTCGAATACTTCTGAG  
CGACCTTTGACAGAGGTGAAGGCTGAGACCCGGGCTGAGGAGGCCCCAGAGAAGAAGAGGGAGAAGCCCAAGTCT  
CTTCGCACCACAGCACCCAGTCATGCCAAGTTCCGTTCCACTGGACTAGAGCTGGAGACACCATCCTTGGTGCCT  
GTGAAGAAGAATGCCAGCACAGTGGTGGTTTCTGACAAGTACAACCTTAAACCATCCCCCTCAAACGTCAGAGC  
AACGTAGCTGCTCCAGGAGATGCCACTCCCCCTGCAGAGAAGAAATACAAGCCACTCAACACAACACCTAATGCC  
ACCAAAGAGATCAAAGTGAAGATCATCCCGCCACAGCCTATGGAGGGCCTGGGCTTTCTGGATGCTCTTAATTCA  
GCCCCGTGTTCCAGGCATCAAATTAAGAAGAAAAAAGTACTGTCACCTACGGCTGCCAAGCCAAGCCCCCTT  
GAAGGGAAAACGAGCACAGAACCAAGCACAGCCAAACCTTCTTCCCCAGAACCCAGCACCACTTCTGAGGCAATG  
GACGCAGACCGTCCAGGCACCCCGGTTCCCCCTGTTGAAGTCCCGGAGCTCATGGATACAGCCTCTTTGGAGCCA  
GGAGCTCTGGATGCCAAGCCAGTGGAGAGTCTTGGAGATCCTAACCAACTGACCCGAAAGGCAGGAAGAGGAAA  
AGTGTGACATGGCTGAGGAAGGCAAACCTGAGAGAATATTTCTATTTTGAATTGGATGAACTGAACGAGTAAAT  
GTGAATAAGATCAAGGACTTTGGTGAGGCCGCTAAGCGAGAGATACTGTCAGACCGACATGCATTTGAGACAGCG  
CGGCGTCTGAGCCATGATAACATGGAGGAGAAGGTGCCCTGGGTGTGCCCCCGGCCCTGGTTCTGCCCTCACCT  
CTGTGACCCCTGGAAGCAATAGTCAGGAGCGATATATCCAGGCTGAGCGGGAGAAGGGAATCCTTCAGGAGCTC  
TTCTGAACAAGGAGAGTCTCATGAGCCTGATCCTGAGCCCTACGAGCCCATACCCCTAAACTCATCCCCCTA  
GATGAGGAGTGTTCATGGATGAGACTCCGTATGTTGAGACTCTGGAACCTGGGGGGTCAGGTGGCTCACCTGAT  
GGGGCAGGAGGCTCCAAGTTGCCTCCAGTTCTGGCCAATCTTATGGGAAGCATGGGTGCTGGAAAGGGCCCCCAA  
GGCCCTGGAGGAGGAGGCATTAATGTCCAAGAGATCCTCACCTCCATCATGGGTAGCCCAAACAGTCATCCTTCA  
GAGGAATACTGAAACAACCAGACTATTCCGACAAGATCAAGCAGATGCTGGTGCCACATGGACTCCTAGGCCCT  
GGCCCAATAGCCAATGGTTTCCCACAGGGGGTCTGGGGGGCCCCAAGGGCATGCAGCACTTTCCCCCTGGACCT  
GGGGGACCTATGCCAGGTCCCCATGGAGGCCCTGGTGGGCCAGTGGGTCCACGTCTTCTGGGTCTCCACCCCT  
CCCCGGGGAGGTGATCCCTTCTGGGATGGCCCGGGCGACCTATGCGGGGTGGCCCAATGCGGGGGGGTCCAGGA  
CCAGGTCTTGACCATAACATAGAGGCCGAGGTGGCCGAGGAGGAAACGAACCTCCTCCTCCTCCTCCTCCATT  
CGAGGCGCCAGAGGAGGTGCTCTGGAGGAGGACCCCCAAATGGACGAGGGGGCCCTGGTGGGGGCATGGTTGGA  
GGTGGTGGGCATCGTCTCACGAAGGCCCTGGTGGGGGCATGGGCAACAGCAGTGGACATCGTCCCCACGAAGGC  
CCTGGCGGTGGCATGGGAAGTGGGCATCGCCCCCATGAAGGCCCTGGTGGTAGCATGGGTGGGGGTGGAGGACAT  
CGTCCCCACGAAGGCCCTGGCGGTGGCATCAGTGGTGGCAGTGGCCATCGTCCCCATGAAGGCCCTGGCGGAGGA  
ATGGGTGCCGTGGTGGACATCGCCCCACGAAGGCCCTGGCGGAAGCATGGGTGGAAGTGGTGGACATCGTCCC  
CATGAAGGCCCTGGACACGGGGGGCCCCATGGCCACCGGCCCTCATGATGTCCCTGGTACCGAGGCCATGACCAT  
CGAGGGCCGCCACCTCATGAGCACCGTGGCCATGATGGTCTGGCCACGGGGGAGGGGGCCACCGAGGGCACGAT  
GGAGGCCACAGCCATGGAGGAGACATGTCAAACCGCCCTGTCTGCCGACATTTTCATGATGAAGGGCAACTGCCGC  
TATGAGAACAACCTGTGCCTTCTACCACCGGGTGTCAATGGGCCCCCTGCCCTAGGGACCATTGTGCTGCCCT  
GTTACACAACCCCTGTGGACTGCAGCCTCGCTCTTCCACCTGTTATGGCTTCTGTGAGGCCCATTTTCCCTT  
TTCCCCAGCTGATGAGGAGCCGGCCCCCTCAGTTCCCACTTGCTTGGGTTCCTGGGGGTTTTCTGATCACTGGTG  
CGCATTGATGTACATATTTTCTCCAGTCTGGGGAGGAGAGAGACTGGAAACGTTCTGGACTGCTGAAGAGGAG

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**FIGURE 2006B**

ACCCAGTTGGCTTCACTTTTTGAGAAGATTGCGCCTGTACCCCAAACCCCTTCCAGTATTACCCTTAATGCTTG  
AGAACCCTAAAGCTGGTTATCCTGGCGAACACCCCTACCCTTCTATTGCGGGTCCCCACATGCACACAGAACTCTG  
ACACAGGATCAGCTGCACCTAAGAAATCATCCCAACTAAGTTTATTATTCCTCATGGGGTGGGGAGATGCTGAAA  
GGGGTATTGTATATCCCACTGCACTGAGAGGGCTCAATCAGCTGGATTTGAGTTCTGGAACACACATCATCCCCA  
CCCCCCCCAGCGTGGGCTCACCATTCTTAGTCCTTTCTCAAGTGGGACCTTCAACTTTCTGTGAACACCCAGT  
CTGCGTCCCTGGGTCTGCTAGGTTGATGATGGCGAACTCGTATCTGCATCCGGTGCAAGTTTTAGCTGGCAGAGG  
TGAGACCGGTGGTGCTGGTCTGCCTTTGCCAACTATAGCCAGTCTGGAGACTTGATAAAATACTTCAGTGAGACC  
AGCTTCTCATCAACTTGGGCCCCGGCGTGCTGGGCCTGAAAGTCACACTACATGCACCTGCCTTTGGGAGTCAGCTC  
ACTCCCTGCTCCCACCTGGAACCTTGCCAGCGTGAAGGAGGCTTCCAGGTACTTCACCCTGTCAACCACCTCTGA  
ATCCCCACCAGGCGCCTTCCCTGGGTGGATTCAACAAGATGATTTTGCCCTTTCCCAGTTCTCTCCTTCACTTTGG  
CATCAGTTGTTTTCTATGAAAACAGTGGATTGGTTGGGTTTTGTGCAGGGTCTTGGGTTAGAGCCAAAATGGATT  
TGAGGATGAGTATTTTTTTTTTTGGTTTTGTATATTTGTACATTAATAATAAACAGTGGAAAGAGAAGCAGCTT

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**FIGURE 2007**

AACCCAAGCGGGACAAGGACTTTTGGGGGGAGGTCAAAGGGCACGAAGTTGTGCCTACAGCTGTTACCATAGTAA  
CCGAGGACCGGATGTGGCGATCTTGGCGGTGCGACAGTCTCTCTCAGGCCCTCTGGCCCGAGAGCCTGTTGAC  
TCTGTGACACACTCTGAGGAGCTGGTTGTGGTGTTCAGCGAGGGAAGAAAAGAGTAATTTTTTCAAAGCATT  
TATAGAAACGCAGCAAAGGGAAGGTGTGAGGTTGCCGCCATGCCTGGCAGAACGGAGGGAGGCAGTTGGCTCCGG  
AATGCGGCCGCCGAGATGTTCTCCGCAACCTTCCGGAAGTGAATGGCGGGAGCCTCAGCATTGCTGCCCACCG  
ACCCCCCGGAAGCGGAAACAGAATCCCCGCGTGCCCTTCTCTACTACCTCCAAATCCCGCTGCAGCCATTGCC  
GCAGACACGATGCCGAAACGAAAGAAGCAGAATCATCACCAGCCACCGACACAGCAGAGCCCCGCTGCCCCGAG  
CGGGAAGAGACTGGAGATGAGGAGGATGGGAGTCCCATCGGACCACCCAGCCTTCTGGGCCCTCCCCCATGGCC  
AATGGAACCTGGCGACCCTAAGTCAGCTCTTCACAGAGGTCTCCAGGATCAAGGGGACCACTGATTCCACCA  
CTGCTGAGTCTCCACCTCTCTTGGGGTAGAGGCCCAATTCGGAGAGGGCTTGGCCCCAGGTCTAGCCCATAT  
GCTCGTGGTTGGTGGGGAGTCAATGCAGAACCTCTTTTCCGGGGCCAGGCCATGGGGGTCCACCAGGGGAAGC  
TTTCAAGGAACAGAGAAACCCTCGAAGGCTCAAAGCTGGTCTCTTATCAAGAATACCTGCCCCGCCAAGGAT  
GACCCCAGGTTATGGAAGACAAATCCGACCGCCCTGTCTGCCGACATTTTGCCAAAAGGGCCACTGTGCATAT  
GAGGACCTCTGTGCCTTCTACCATCCAGGCGTCAATGGACCTCTCTGTGAGACTGTGCCTTCCCATCCAGGCTG  
GAAGGAGCTCTCTGTGACCTAGCGGCCATTTATTTCTCTGTAGCCCTATGATGGCTACTGTGAGGCTCTTCTAAC  
ACCTCAGTCAGTGACACACCCATCCCATCCACCATTCCCCCGTGTGGGGTCCAGAGTGGTGTGTCATCACTGG  
TGCGCGGCATACGCGCTTCTTCTGATCCAGCCTGTAGAGACTCGCCTTGGGACCCATCTTTGCTTCCCTTCAG  
TTGCCTCCTGGATCTTCTTTCCCGTCATCAAATGACTGCTGAACAGGAAACCTCTTTGGTGCTGTTTCTTGTGCA  
TCTGTCCACCTGTTCCCCAGTATTGCCCTCAATTCCTGAGAGCCCTGGAGCGGTTTCTACCATTCCCTTCTTTT  
AGCTGCTTGTTTTAAGTCCTTTTTATGTGACATTCCCTACCCCCAATGTTGTGCTGCTTGTGAACTCAGCCA  
GGTTGTCTAACCTGGGGTCAAGTTTGGGTGACTGGTGCAGAGTTACTTCTTAAAGGCCACTCTCCCTGCCTTTG  
GATTTCATAGTTTCTCTGTGCTAGCATGATCCCCACCGCTATGGTCTATCTATGATCACCGTGCTTTGTGAAAC  
TGTGCATCCCTTGTAGCCTTCTCAGTGTCCGTGGCATTTTTGTGACTTCCAGCACTAGAATAAGTTTTCCTG  
CCAAAATGAGTGAGGCGCTTGGTGCCCTCTGGACTTTCCCACTTCCCAACATGGGAGAATTGTGAACCTTCCATC  
AGACTGCCTCCCTGGCCCTCCCATTTCTCTCTGTGGTTATTCTGAGTCTGACACAGACCCATGACATGTCTT  
ATAAAGCCTCCAATGGCTTTATCCTACCTAGATCCCTTCCAGCCCATTTAATTAGACTATGTCATTGTGAGGCC  
ACCAGTCCATTCAATTGAATTCTGTGAATCTCCACCTTGCTATCTTTGGGTAGAAGCTGGACAGTACTGTTGCC  
CTCTTCCAATCCTCTTCCCTACATCCCTGGCACTGGTTGTTTCTGTGAAAACAGCAGTGAACAGGTTTCAAGTTT  
TGAAGTGGCCCTGAGGAAATGGGTGAGGAGTTGTATTGGCAAGAGGGAGGGGTGAGAGCTGTTGGAGAACTGAGA  
ATGAGGTTTTTTTTTTTTTTTCTTTTAACTTTTTTATATTAGTAATAAATGCAGTGGAACACAGCATTTTAT  
TTAAAAAAA

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**FIGURE 2008**

MPGRTEGGSWLRNAAAADVLRNLPEVEWREPQHCCPPTPRKRKQNPVRVPLPHYPPNPAAAIAADTMPKRKKQNH  
QPFTQQQPPLPEREETGDEEDGSPIGPPSLLGPPPMANGKPGDPKSALHRGPPGSRGPLIPPLLSLPPPPWGRGP  
IRRGLGPRSSPYGRGWWGVNAEPPFPGP GHGGPTRGSFHKEQRNPRRLKSWSLIKNTCPPKDDPQVMEDKSDRPV  
CRHFAKKGHCRYEDLCAFYHPGVNGPPL

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**FIGURE 2009**

GGGAGCTCGGCGGAGGGCGGGCCAGGTGACTGGTCCGGGCCATGCCGAGGAAGAAGCCATTTCAGCGTGAAGCAGA  
AGAAGAAGCAGTTGCAGGACAAACGGGAGCGGAAGAGAGGGCTTCAAGATGGGCTGCGCTCCAGTTCCAACAGCC  
GCAGCGGGAGCCGGGAGCGGCGAGAGGAACAGACCGACACCTCGGACGGGGAGTCTGTGACCCATCATATCCGCA  
GGCTTAACCAGCAGCCTTCTCAGGGGCTGGGTCCACGAGGCTACGACCCAAATCGATACCGACTGCATTTTGAGA  
GAGACAGCAGGGAGGAGGTAGAGAGGAGAAAGAGAGCAGCCCGGGAGCAAGTTCTACAGCCGGTCAGTGCTGAGT  
TGTTGGAGCTGGACATCCGGGAGGTGTATCAGCCTGGCTCAGTTCTGGACTTTCCTCGACGTCCTCCTTGGAGCT  
ATGAGATGTCCAAGGAGCAACTAATGAGCCAAGAGGAACGGAGCTTCCAAGACTATCTTGGGAAGATTTCATGGGG  
CTTACTCCTCTGAGAACTCAGCTACTTTGAGCACAACTCTGGAGACATGGAGGCAGCTGTGGCGGGTGTAGAGA  
TGTCTGACATCGTCCTGCTTATCACTGATATCCGACATCCAGTTGTGAATTTCCCGCCAGCACTTTATGAGTATG  
TGAAGTGGAGAACTTGGACTGGCCCTGGTGTGGTTTTGAACAAGGTGGATCTGGCCCCGCCAGCTCTTGTGGTTG  
CCTGGAAGCATTATTTCCATCAACACTATCCCCAGCTCCACGTCGTCCTTTTACCTCTTTTCTCGGGACCCCC  
GCACCCACAGGATCCTAGTAGTGTCTTGAAGAAGAGTCGGAGGCGGGGGAGAGGATGGACTCGGGCCCTGGGGC  
CAGAGCAGTTGCTGAGAGCCTGTGAAGCCATCACTGTGGGGAAAGTGGACTTGAGCAGCTGGCGGGAGAAGATTG  
CTCGGGATGTGGCTGGGGCCACCTGGGGTAATGGCTCTGGGGAGGAGGAGGAAGAGGAGGATGGCCCAGCAGTCC  
TGGTGGAGCAGCAGACTGATTCAGCAATGGAGCCAACCTGGCCCCAACCCAAAGAGCGCTACAAGGATGGGGTGGTGA  
CCATCGGCTGTGTGGGTTTCCCTAATGTGGGAAAGTCCTCGCTGATCAATGGGCTGGTGGGGCGGAAAGTCGTGA  
GTGTCTCCAGAACCCCGGGCCATACCCGATACTTTTCAGACCTACTTTCTTACCCCTCTGTGAAGCTCTGTGACT  
GCCCAGGCCTCATCTTCCCACTCTTCTGCTAGGCAGTTGCAGGTTCTGGCAGGGATCTACCCTATCGCCCAGA  
TCCAGGAGCCCTACACTGCTGTGGGCTACCTGGCCTCCCGAATTCCCGTGCAGGCCCTGCTCCACCTGCGCCACC  
CAGAGGCTGAGGACCCCTCAGCGGAACACCCCTGGTGTGCCTGGGACATCTGTGAAGCCTGGGCAGAGAAACGTG  
GTTACAAGACAGCCAAGGCGGCTCGGAATGATGTGTACAGAGCAGCCAACAGTCTCTTGGCGCTGGCAGTGGACG  
GCCGCTCAGCCTGTGTTTTTCATCCCCAGGCTACAGTGAACAGAAAGGCACCTGGGAGTCCCATCCAGAGACCA  
CGGAGCTGGTGGTTTTTGAGGGCAGGGTGGGGCCAGCAGGTGACGAGGAGGAGGAGGAAGAGGAAGAGCTGAGCA  
GCTCCTGTGAGGAGGAGGGAGAGGAGGACCGGGATGCGGATGAGGAGGGAGAAGGGGATGAGGAGACCCCAACCT  
CGGCTCCAGGGTCCAGCCTGGCTGGCCGAAACCCCTTATGCCCTGCTGGGTGAGGATGAGTGCTGAGTTCTCGCC  
CAGCGCCATCTTCCCTCCAGTATCTTTGCTTTTGGACTGACCTGGGGGTATCTCCCTCTGCCACCCCAATTGT  
GAATAAAGATTGTTTGCTTTGTAGCCCTTCCCCAGATGAAGTGAAGTGAGAGCGGCTGTTCCAGGCTAACAGCT  
GTGGGAGGCTTCTCTCTCTTCTCCCTTCTTTTTT

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**FIGURE 2010**

MPRKKPFSVKQKKKQLQDKRERKRGLQDGLRSSNSRSGSRERREEQTDTSDGESVTHHIRRLNQPSQGLGPRG  
YDPNRYRLHFERDSREEVERRKRAAREQVLQPVSAEELLELDIREVYQPGSVLDFPRRPPWSYEMSKEQLMSQEER  
SFQDYLGKIHGAYSSEKLSYFEHNLETWRQLWRVLEMSDIVLLITDIRHPVVNFPPALYEYVTGELGLALVVLN  
KVDLAPPALVVAWKHYFHQHYPLHVLFSTFPRDPRTFQDPSSVLKKSRRRGRGWTRALGPEQLLRACEAITVG  
KVDLSSWREKIARDVAGATWNGSGEEEEEDGPAVLVEQQTDSAMEPTGPTQERYKDGVVITIGCVGFPNVGKSS  
LINGLVGRKVVSVSRTPGHTRYFQTYFLTPSVKLCDCPGLIFPSLLPRQLQVLAGIYPIAQIQEPYTAVGYLASR  
IPVQALLHLRHPEAEDPSAEHPWCAWDICEAWAEKRGYKTAKAARNDEVYRAANSLLRLAVDGRSLCFHPPGYSE  
QKGTWESHPETTELVVLOGRVGPAGDEEEEEEEELSSSCEEEGEEDRDADEEGEGDEETPTSAPGSSLAGRNPYA  
LLGEDEC

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**FIGURE 2011**

GGGATCATGGTAGATGGAACCCCTCCTTTTACTCCTCTCGGAGGCCCTGGCCCTTACCCAGACCTGGGCGGGCTCC  
CACTCCTTGAAGTATTTCCACACTTCCGTGTCCCGGCCCGGCCGCGGGGAGCCCCGCTTCATCTCTGTGGGCTAC  
GTGGACGACACCCAGTTCGTGCGCTTCGACAACGACGCCGCGAGTCCGAGGATGGTGCCGCGGGCGCCGTGGATG  
GAGCAGGAGGGGTGAGAGTATTGGGACCGGGAGACACGGAGCGCCAGGGACACCGCACAGATTTTCCGAGTGAAC  
CTGCGGACGCTGCGCGGCTACTACAATCAGAGCGAGGCCGGGTCTCACACCCTGCAGTGGATGCATGGCTGCGAG  
CTGGGGCCCGACAGGCGCTTCCTCCGCGGGTATGAACAGTTCGCCTACGACGGCAAGGATTATCTCACCCCTGAAT  
GAGGACCTGCGCTCCTGGACCGCGGTGGACACGGCGGCTCAGATCTCCGAGCAAAAGTCAAATGATGCCTCTGAG  
GCGGAGCACCAGAGAGCCTACCTGGAAGACACATGCGTGGAGTGGCTCCACAAATACCTGGAGAAGGGGAAGGAG  
ACGCTGCTTCACCTGGAGCCCCCAAAGACACACGTGACTCACCACCCCATCTCTGACCATGAGGCCACCTGAGG  
TGCTGGGCCCTGGGCTTCTACCCCTGCGGAGATCACACTGACCTGGCAGCAGGATGGGGAGGGCCATACCCAGGAC  
ACGGAGCTCGTGGAGACCAGGCCTGCAGGGGATGGAACCTTCCAGAAGTGGGCAGCTGTGGTGGTGCCTTCTGGA  
GAGGAGCAGAGATACACGTGCCATGTGCAGCATGAGGGGCTACCCGAGCCCGTCACCCTGAGATGGAAGCCGGCT  
TCCCAGCCCACCATCCCCATCGTGGGCATCATTGCTGGCCTGGTTCTCCTTGGATCTGTGGTCTCTGGAGCTGTG  
GTTGCTGCTGTGATATGGAGGAAGAAGAGCTCAGGTGGAAAAGGAGGGAGCTACTCTAAGGCTGAGTGGAGCGAC  
AGTGCCAGGGGTCTGAGTCTCACAGCTTGTAAGCCCTGAGACAGCTGCCTTGTGTGCGACTGAGATGCACAGCT  
GCCTTGTGTGCGACTGAGATGCAGGATTTCCCTCACGCCTCCCTATGTGTCTTAGGGGACTCTGGCTTCTCTTTT  
TGCAAGGGCCTCTGAATCTGTCTGTGTCCCTGTTAGCACAAATGTGAGGAGGTAGAGAAACAGTCCACCTCTGTGT  
CTACCATGACCCCTTCCTCACACTGACCTGTGTTCCCTTCCCTGTTCTCTTTTCTATTAAAAATAAGAACCTGGG  
CAGAGTGCGGCAGCTCATGCCTGTAATCCAGCACTTAGGGAGGCCGAGGAGGGCAGATCACGAGGTCAGGAGAT  
CGAAACCATCCTGGCTAACACGGTGAACCCCGTCTCTACTAAAAAATACAAAAAATTAGCTGGGCGCAGAGGCA  
CGGGCCTGTAGTCCCAGCTACTCAGGAGGCGGAGGCAGGAGAATGGCGTCAACCCGGGAGGCGGAGGTTGCAGTG  
AGCCAGGATTGTGCGACTGCACTCCAGCCTGGGTGACAGGTTGAAACGCCATCTCAAAAAATAAAAAATTAAAAA  
TAAAAAAGAACC

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**FIGURE 2012**

MVDGTL L L L L L S E A L A L T Q T W A G S H S L K Y F H T S V S R P G R G E P R F I S V G Y V D D T Q F V R F D N D A A S P R M V P R A P W M E Q  
E G S E Y W D R E T R S A R D T A Q I F R V N L R T L R G Y Y N Q S E A G S H T L Q W M H G C E L G P D R R F L R G Y E Q F A Y D G K D Y L T L N E D  
L R S W T A V D T A A Q I S E Q K S N D A S E A E H Q R A Y L E D T C V E W L H K Y L E K G K E T L L H L E P P K T H V T H H P I S D H E A T L R C W  
A L G F Y P A E I T L T W Q D G E G H T Q D T E L V E T R P A G D G T F Q K W A A V V V P S G E E Q R Y T C H V Q H E G L P E P V T L R W K P A S Q  
P T I P I V G I I A G L V L L G S V V S G A V V A A V I W R K K S S G G K G G S Y S K A E W S D S A Q G S E S H S L



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**FIGURE 2013**

CCTGAGTCAGACGGGCATGGAGACGCTTCTGGAAGGAACACCGCAATGGCTGCGCAGGGACAGCCCCAGGTCCAG  
TTCAAAC TTGTATTGGTTGGTGATGGTGGTACTGGAAAAACGACTTTTCGTGAAACATCATTGACTGGTGAATTT  
GAGAAGAAGTATGTAGCCACCTTGGGTGTTGAGGTTTCATCCCCTAGTGTTCCATACCAACAGAGGACCTGTTAAG  
TTCAATGTATGGGACACAGCCGGCCTGGAGAAATTCAGTGGACTGAGAGATGGCTATTATATCCAAGCCCAGAGT  
ACCATCATAGTGTTTGATGTAACATCGAGAGTTACTTACAAGAATGTGCCTAACTGGCATAGAGATCTGGTATGA  
GTGTGTGAAAACACCCCCACTGTGTTGAGTGGCAACAAAGTGGATATTAAGGACAGGAAAGTGAAGGCGAAATCC  
ATTGTCTTCCACCGAAAGAAGAATCTTCAGTACTACGACATTTCTGCCAAAAGTAACTATAACTTTGAAAAGCCC  
TTCTCTGGCTTGCTAGGAAGCTCATTGGAGACCCTAACTTGGAAATTTGTTGCCATGCCTGCTCTGCCCCACCA  
GAAGTTGTCATGGACCCAGCTTTGGCAGCACAGTATGAGCACGACTTAGAGGTTGCTCAGACAACCTGCTCTCCCG  
GACGAGGATGATGACCTGTGAGAATGAAGCTGGAGCCCAGCGTCAGAAAGTCTAGTTTTATAGGCAGCTGTCCTGT  
GATGTCAGTTGTGCAGCGTGTGTGCCACCTCATTATTATCTAGCTAAGCGGAACATGTGCTTCATCTGTGGGATG  
CTGAAGGAGATGAGTGGGCTTCGCAGTGAATGTGGCAGTTCAAAAAATACCTTCATTGTTTGGACCTGCATATTT  
AGCTGTTTTGGAACACAGTTGATTCCTTGAGTTTCAAATATAGACTGCTACAGTCACATCACAATATTCAGCGGT  
GAAATCTTGTGTTGTTACTGTCATTCCCATTCCTTTTCGTTTAGAATCAGAATAAAGTTGTATTTCAAATATCTAA

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**FIGURE 2014**

MAAQGPQVQFKLVLVGDGGTGKTTFVKHHLTGEFEKKYVATLGVEVHPLVFHTNRGPVKFNVWDTAGLEKFSGL  
RDGYIIQAQSTIIIVFDVTSRVTYKNVPNWHRDLVEVCENTPTVLSGNKVDIKDRKVKAKSIVFHRKKNLQYYDIS  
AKSNYNFEKPFLLWLARKLIGDPNLEFVAMPALAPPEVVM DPALAAQYEHDLVAQTALPDEDDDL

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**FIGURE 2015**

GGAGACGCTTCTGGAAGGAACACCGCAATGGCTGCGCAGGGACAGCCCCAGGTCCAGTTCAAACCTTGTATTGGTT  
GGTGATGGTGGTACTGGAAAAACGACTTTCGTGAAACATCATTTGACTGGTGAATTTGAGAAGAAGTATGTAGCC  
ACCTTGGGTGTTGAGGTTTCATCCCCTAGTGTTCCATACCAACAGAGGACCTGTAAAGTTCAATGTATGGGACACA  
GCCGGCCTGGAGAAATTCAGTGGACTGAGAGATGGCTATTATATCCAAGCCCAGAGTACCATCATAGTGTGTTGAT  
GTAACATCGAGAGTTACTTACAAGAATGTGCCTAACTGGCATAGAGATCTGGTATGAGTGTGTGAAAACACCCCC  
ACTGTGTTGAGTGGCAACAAAGTGGATATTAAGGACAGGAAAGTGAAGGCGAAATCCATTGTCTTCCACCGAAAG  
AAGAATCTTCAGTACTACGACATTTCTGCCAAAAGTAAGTATAACTTTGTTGTTGCCATGCCTGCTCTCGCCCCA  
CCAGAAGTTGTCATGGACCCAGCTTTGGCAGCACAGTATGAGCACGACTTAGAGGTTGCTCAGACAACTGCTCTC  
CCGACGAGGATGATGACCTGTGAGAATGAAGCTGGAGCCCAGCGTCAGAAGTCTAGTTTTATAGGCAGCTGTCC  
TGTGA

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**FIGURE 2016**

CCCCAGACGCCGAGGATGGCCGTCATGGCGCCCCGAACCCTCCTCCTGCTACTCTCGGGGGCCCTGGCCCTGACC  
CAGACCTGGGCGGGCTCCCACTCCATGAGGTATTTCTTCACATCCGTGTCCCGGCCCGCGCGGGGAGCCCCGC  
TTCATCGCCGTGGGCTACGTGGACGACACGCAGTTTCGTGCGGTTTCGACAGCGACGCCGCGAGCCAGAGGATGGAG  
CCGCGGGGCGCCGTGGATAGAGCAGGAGGGGCCGGAGTATTGGGACCAGGAGACACGGAATGTGAAGGCCCAGTCA  
CAGACTGACCGAGTGGACCTGGGGACCCTGCGCGGCTACTACAACCAGAGCGAGGCCGTTCTCACACCATCCAG  
ATAATGTATGGCTGCGACGTGGGGTCGGACGGGCGCTTCCTCCGCGGGTACCGGCAGGACGCCTACGACGGCAAG  
GATTACATCGCCCTGAACGAGGACCTGCGCTCTTGACCGCGGGCGGACATGGCGGCTCAGATCACCAGCGCAAG  
TGGGAGGCGGCCCATGAGGCGGAGCAGTTGAGAGCCTACCTGGATGGCACGTGCGTGGAGTGGCTCCGCAGATAC  
CTGGAGAACGGGAAGGAGACGCTGCAGCGCACGGACCCCCCAAGACACATATGACCCACCACCCCATCTCTGAC  
CATGAGGCCACCTGAGGTGCTGGGGCCCTGGGCTTCTACCCTGCGGAGATCACACTGACCTGGCAGCGGGATGGG  
GAGGACCAGACCCAGGACACGGAGCTCGTGGAGACCAGGCCTGCAGGGGATGGAACCTTCCAGAAGTGGGCGGCT  
GTGGTGGTGCCTTCTGGAGAGGAGCAGAGATACACCTGCCATGTGCAGCATGAGGGTCTGCCCAAGCCCCCTCACC  
CTGAGATGGGAGCTGTCTTCCAGCCCACCATCCCCATCGTGGGCATCATTGCTGGCCTGGTTCTCCTTGAGCT  
GTGATCACTGGAGCTGTGGTCGCTGCCGTGATGTGGAGGAGGAAGAGCTCAGATAGAAAAGGAGGGAGTTACACT  
CAGGCTGCAAGCAGTGACAGTGCCCAGGGCTCTGATGTGTCCCTCACAGCTTGTAAGTGTGAGACAGCTGCCTT  
GTGTGGGACTGAGAGGCAAGAGTTGTTCTGCCCTTCCCTTTGTGACTTGAAGAACCCTGACTTTGTTTCTGCAA  
AGGCACCTGCATGTGTCTGTGTTTCGTGTAGGCATAATGTGAGGAGGTGGGGAGACCACCCACCCCATGTCCAC  
CATGACCTCTTCCCACGCTGACCTGTGCTCCCTCCCCAATCATCTTTCCTGTTCCAGAGAGGTGGGGCTGAGGT  
GTCTCCATCTCTGTCTCAACTTCATGGTGCAGTGTAACTTCTTCCCTTCCCTATTAAAATTAGAACCTTAG  
TATAAATTTACTTTCTCAAATTCTTGCCATGAGAGGTTGATGAGTTAATTAAAGGAGAAGATTCTAAAATTTGA  
GAGACAAAATAAATGGAAGACATGAGAAC

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**FIGURE 2017**

ATGGCGCCCCGAAGCCTCCTCCTGCTGCTCTCAGGGGCCCTGGCCCTGACCGATACTTGGGCGGGCTCCCACTCC  
TTGAGGTATTTAGCACCGCTGTGTGCGCGGCCCGGCCGCGGGGAGCCCCGCTACATCGCCGTGGAGTACGTAGAC  
GACACGCAATTCCTGCGGTTTCGACAGCGACGCCGCGATTCCGAGGATGGAGCCGCGGGAGCCGTGGGTGGAGCAA  
GAGGGGCCGAGTATTGGGAGTGGACCACAGGGTACGCCAAGGCCAACGCACAGACTGACCGAGTGGCCCTGAGG  
AACCTGCTCCGCCGCTACAACCAGAGCGAGGCTGGGTCTCACACCCTCCAGGGAATGAATGGCTGCGACATGGGG  
CCCGACGGACGCCTCCTCCGCGGGTATCACCAGCACGCGTACGACGGCAAGGATTACATCTCCCTGAACGAGGAC  
CTGCGCTCCTGGACCGCGGGCGGACACCGTGGCTCAGATCAGCCAGCGCTTCTATGAGGCAGAGGAATATGCAGAG  
GAGTTCAGGACCTACCTGGAGGGCGAGTGCCTGGAGTTGCTCCGCAGATACTTGGAGAATGGGAAGGAGACGCTA  
CAGCGCGCAGATCCTCCAAAGGCACACGTTGCCACCAACCCCATCTCTGACCATGAGGCCACCTGAGGTGCTGG  
GCCCTGGGCTTCTACCTGCGGAGATCACGCTGACCTGGCAGCGGGATGGGGAGGAACAGACCCAGGACACAGAG  
CTTGTGGAGACCAGGCCTGCAGGGGATGGAACCTTCCAGAAGTGGGCCGCTGTGGTGGTGCCTTCTGGAGAGGAA  
CAGAGATACACATGCCATGTGCAGCACGAGGGGCTGCCCCAGCCCTCATCCTGAGATGGGAGCAGTCTCCCCAG  
CCCACCATCCCCATCGTGGGCATCGTTGCTGGCCTTGTTGTCCTTGGAGCTGTGGTCACTGGAGCTGTGGTCGCT  
GCTGTGATGTGGAGGAAGAAGAGCTCAGATAGAAACAGAGGGAGCTACTCTCAGGCTGCAGTCACTGACAGTGCC  
CAGGGCTCTGGGGTGTCTCTCACAGCTAATAAAGTGTGAGACAGCTTCCTTGTGTGGGACTGAGAAGCAAGATAT  
CAATGTAGCAGAATTGCACTTGTGCCTCACGAACATACATAAATTTAAAAATAAAGAATAAA

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**FIGURE 2018**

MAPRSLLLLLSGALALDTWAGSHSLRYFSTAVSRPGRGEPRIYIAVEYVDDTQFLRFDSDAAIPRMEPREPWVEQ  
EGPQYWEWTTGYAKANAQTDRVALRNLLRRYNQSEAGSHTLQGMNGCDMGPDGRLLRGYHQHAYDGKDYISLNED  
LRSWTAADTVAQITQRFYEAEEYAEFFRYLEGECLELLRRYLENGKETLQADPPKAHVAAHPISDHEATLRCW  
ALGFYPAEITLTWQRDGEETQDTELVEITRPAGDGTQKWAAVVVPSEEGQRYTCHVQHEGLPQPLILRWEQSPQ  
PTIPIVGIVAGLVVLGAVVTGAVVAAMWRKKSSDRNRGSYSQAAVTDSAQSGVSLTANKV

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**FIGURE 2019**

GAGAGCACGACGTGCGCGCACCCCTCTCCCCTTGTCCACTGCTGCCGCTCCTTCTTCTGCCGCTCCTGGTGCTGC  
TTGTGTGCTCGTTTGGAGCGGACCTGGTACCTCTTTTGTGAAGCGGCAGCTGAGGAGACTCCGGCGCTCGCCATG  
GCCGAAGAAAAGCCCCAAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGAAGGTGGCGGGGCAGGAT  
GGTTCTGTGGTGTCAGTTTAAGATTAAGAGGCATACACCACTTAGTAACTAATGAAAGCCTATTGTGAACGACAG  
GGATTGTCAATGAGGCAGATCAGATTCCGATTCGACGGGCAACCAATGAAACAGACACACCTGCACAGTTGGAAA  
TGGAGGATGAAGATACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTGAAAAGGGAACCTGCTTCTTT  
ACTCCAGAACTCTGTTCTTTAAAGACCAAGATTACATTCTCAATTAGAAAAGTCAATTTGCTTCCACCACATCC  
TGACTACTACCGTATAGTTTTCTCTATTCTTTCATTTCCCCCTTCCCCATTCTTTACTGTACATAAAGTAACTG  
GTATATGTGCACAAGCATATTACTTTTTTTTTTTTAAACTAAACAGCCAATGGTATGTTTTGATTGACATCAAGT  
GGAGACGGGGCGGAAAAATACTGATTCTGTGAAAATACCCCTTTCTCCATTAGTGGCATGCTCATTAGCTCTT  
ATCTTTATATTCCAGTAAGTTATTTTGCTCTCACIGTTTTTAACAACAACAACAAAAACAACAACATAAAAAATC  
CTTGCATACCTTGTTCAATTGGAGAATTTAATGTTTTTCATTTATCATTGTAAACCAAGGACAATTTTATAAC  
TTTTTTGTACTTAGCTGTTACATGCAGAGCAATCTGTCTTTAAGTAGGGATAAATTACTCTAAAACAAAAAAGAA  
TCCTAGATAGTTTTCCCTTCAAGTCAAGCGTCTTGTGTTTAAATAAACTTCTTGTTTAAAA

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**FIGURE 2020**

MAEEKPKEGVKTENNDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQGLSMRQIRFRFDGQPMKQTHLSW  
KWRMKIQLMCSNSRREVSTEGTCFFTPELCSLTKITFSIRKLQFASTTS



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**FIGURE 2021**

GCCGCTCCTGGTGCTGCTTGTGTGCTCGTTTGGAGCGGACCTGGTACCTCTTTTGTGAAGCGGCAGCTGAGGAGA  
CTCCGGCGCTCGCCATGGCCGAAGAAAAGCCCAAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGA  
AGGTGGCGGGGCAGGATGGTTCTGTGGTGCAGTTTAAGATTAAAGAGGCATACACCACTTAGTAACTAATGAAAG  
CCTATTGTGAACGACAGGGATTGTCAATGAGGCAGATCAGATTCCGATTGCGGCAACCAATGAAACAGACAC  
ACCTGCACAGTTGGAAATGGAGGATGAAGATACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTGAAA  
AGGGAACCTGCTTCTTTACTCCAGAACTCTGTTCTTTAAAGACCAAGATTACATTCTCAATTAGTCTTTCATTTC  
CCCCTTCCCCATTCTTTACTGTACATTAAAGTAAGTGGTATATGTGCACAAGCATATT

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**FIGURE 2022**

MAEEKPKEGVKTENNDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQGLSMRQIRFRFDGQPMKQTHLHSW  
KWRMKIQLMCSNSRREVSTEGTCFFTPELCSLTKITFSISLSFPPSPFLYCT

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**FIGURE 2023**

ATGAAGGCCAACTACAGCGCAGAGGAGCGCTTTCTCCTGCTGGGTTTCTCCGACTGGCCTTCCCTGCAGCCGGTC  
CTCTTCGCCCTTGTCCTCCTGTGCTACCTCCTGACCTTGACGGGCAACTCGGCGCTGGTGCTGCTGGCGGTGCGC  
GACCCGCGCCTGCACACGCCCATGTACTACTTCTCTGCCACCTGGCCTTGGTAGACGCGGGCTTCACTACTAGC  
GTGGTGCCGCCGCTGCTGGCCAACTGCGCGGACCAGCGCTCTGGCTGCCGCGCAGCCACTGCACGGCCCAGCTG  
TGCGCATCGCTGGCTCTGGGTTCCGCCGAATGCGTCCTCCTGGCGGTGATGGCTCTGGACCGCGCGGCCGAGTG  
TGCCGCCCCTGCGCTATGCGGGGCTCGTCTCCCCGCGCCTATGTCGCACGCTGGCCAGCGCCTCCTGGCTAAGT  
GGCCTCACCAACTCGGTTGCGCAAACCGCGCTCCTGGCTGAGCGGCCGCTGTGCGCGCCCCGCTGCTGGACCAC  
TTCATCTGTGAGCTGCCGGCGTTGCTCAAGCTGGCCTGCGGAGGCGACGGAGACACTACCGAGAACCAGATGTTT  
GCCGCCCCGCTGGTTCATCCTGCTGCTGCCGTTTGCCGTCATCCTGGCCTCCTACGGTGCCGTGGCCCCGAGCTGTC  
TGTTCATGCGGTTTACGCGGAGGCCGGAGGAGGGCGGTGGGCACGTGTGGGTCCCACCTGACAGCCGTCTGCCTG  
TTCTACGGCTCGGCCATCTACACCTACCTGCAGCCCGCGCAGCGCTACAACCAGGCACGGGGCAAGTTCGTATCG  
CTCTTCTACACCGTGGTCACACCTGCTCTCAACCCGCTCATCTACACCTCAGGAATAAGAAAGTGAAGGGGGCA  
GCGAGGAGGCTGCTGCGGAGTCTGGGGAGAGGCCAGGCTGGGCAGTGA

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**FIGURE 2024**

MEGTQEYDSSMQTVRFQGERRKSPSNATFSPFFWMPHSAKSLVADAGIHSRNQHSYAIASF IKYSQLHFKSRESR  
AGARDQPIIWKLKANYSAEERFLLLGFSDWPSLQPVLFAVLVLLCYLLTLTGNSALVLLAVRDPRLHTPMYYFLCH  
LALVDAGFTTSVVPPLLANLRGPALWLPRSHCTAQLCASLALGSAECVLLAVMALDRAAAVCRPLRYAGLVSPRL  
CRTLASASWLSGLTNSVAQTALLAERPLCAPRLLDHFICELPALLKLACGGDGDTTENQMFAARVVILLLPFAVI  
LASYGAVARAVCCMRFSGGRRRAVGTCGSHLTAVCLFYGSAIYTYLQPAQRYNQARGKFVSLFYTVVTPALNPLI  
YTLRNKKVKGAARRLLRSLGRGQAGQ

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**FIGURE 2025**

ATGGGGAGAAGGTATGTGAGGAAGGAAAGAAAAAGGCCAGCAGGTGAAGAAAAAGAAGAAGGTCTGGTGAGGACA  
ATGGAGACGGCCAATCGTTCCTTAAACGGTCTCCTCCTCCTGGTTCCTCTCTCCAAGATGGCAAGGGAGCCTGC  
AAATTCGGTCTCCAAGGATCCCTCTGCCAGAGCAACGAACCTCCCTTTGGCAATATAGGAATAATCTTCATTCTC  
CCTGCAATTGTGCACATTAATAGGCTGTTTAATGAAAGTACAGTGTGGAGCTCATTATTGCGAACAGCAGCCCTT  
AGAGATCGTAGCTGGCTGGTAAAGGCGGCTTTAGAGCGGACGCCCAGGCTTCTTCATCAGCTTACCAGAAGGTTG  
GAGGCAGAAGACCTCCCATTTGCAGATTCACTCATTTCTCCGCTTATGCTTCCGTTCTTTGAAAGTGAACCACTA  
GGTTTCAGAAAGCACCAAGGCAGTTAAAACAGAGTTTACTCCCTCGGTCACTGCACTAGAAATCAGGAGGCGAACA  
CTGTACCTAAACATAAAACGACATTCTCAAAAACCTGCCCTGCACAGGCTTGTGGGACTTCACGATCCTTCTTGG  
ACCTGCATCCCCCTCTTCTCTGGTACTCGGACCAAAATCGAACAATCAAGCAACAAAGTTGGCCTTAAAATTGAG  
GCCCCAGAGATGAGGTTACTGAGCGGTATATGTACAGAGCCAAACTTTCTGCAATGAATTGGAAAAGAACATC  
AAGACAGAGGGAGGAGCGCTGGGGGTGAACACCGCCTTGACCTTTGTAACCTGCTGCACAAATAAGGAGTGGTTG  
CTGTGCCAGTTTTCCCTGAAGAGGTGCTGACCAGCTGGCTCTGTGAATTCGAATACAGTTTTCAGGCAGGCTCT  
GGGAGAGTTTTGGGGAATCCCGAAAGACAGCCCAGAGATGCTGGACTGCGAATGCAGGCGCGCTGCAGGCGAGGC  
TGGGAGGGCCGCCAGGAGCGCTGCGGGTATCGGGAGACACGCAGAGGGAGGGGCAGGCGGCGGGCTCCGCTTCTT  
CGCGTCCTGGCTCTGAAAGCAACCACAGGCCAGCGGGGCGGTGCTAGAAAAACACAACCTTCACGGAAGAGTTTT  
GAAAAGATTTCCGGCAAGAAAATAATGTTACCAGAGACCGTTGAGGCCCCGCCAGCCTTCAAGATGGATGCCCTT  
GCTGGCCGCAAAGTGGGTCTCATTGCTCCCCGCCGACTGGACGTCTCCGGGGAACGAAGACTGTGCAGGAGAAA  
GAGAGCTAG

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**FIGURE 2026**

MGRRYVRKERKRPAGEEKEEGLVRTMETANRSLKRSPPPGSSLQDGKGACKFGLQGSLCPEQRTPFNGIIGFIL  
PAIVHINRLFNESTVWSSLLRTAALRDRSWLVKAAALERTPRLLHQLTRRLEAEDLPFADSLISPLMLPFFESEPL  
GFRKHQAVKTEFTPSVTALEIRRRTLYLNIKRHSQKLPCTGLLGLHDPSTWCIPLFSGTRTKIEQSSNKVGLKIE  
APEMRLLSGYMSQSQTFCNELEKNIKTEGGALGVNTALTFTVCCTNKEWLLCQFSLKRCLTSWLCEFEYSFQAGS  
GRVLGNPERQPRDAGLRMQARCRRGWEGRQERCYRETRRGRGRRRAPLLRVLALKATTGQRGGARKTQPSRKSF  
EKISGKKIMLPETVEARPAFKMDAPAGRKVGLIAPRRTGRLRGTKTVQEKES

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**FIGURE 2027**

TACGGCCGTCGTGCCGCTCGTGTCAGTCAACATGGAGGCAGAGGAATCGGAGAAGGCCGCAACGGAGCAAGAGCC  
GCTGGAAGGGACAGAACAGACACTAGATGCGGAGGAGGAGCAGGAGGAATCCGAAGAAGCGGCCTGTGGCAGCAA  
GAAGCGGGTAGTGCCAGGTATTGTGTACCTGGGCCATATCCCGCCGCGCTTCCGGCCCCTGACGTCCGCAACCT  
TCTCAGCGCCTATGGCGAGGTTCGGACGCGTCTTCTTTTCAGGCTGAGGACCGGTTTCGTGAGACGCAAGAAGAAGGC  
AGCAGCAGCTGCCGGAGGAAAAAGCGTCTTACACCAAGGACTACACCGAGGGATGGGTGGAGTTCCGTGACAA  
GCGCATAGCCAAGCGCGTGGCGGCCAGTCTACACAACACGCCTATGGGTGCCCGCAGGCGCAGCCCCCTCCGTTA  
TGATCTTTTGGAACTCAAGTACTTGCACCGTTTTCACCTGGTCCCACCTCAGCGAGCACCTCGCCTTTGAGCGCCA  
GGTGCGCAGGCAGCGCTTGAGAGCGGAGGTTGCTCAAGCCAAGCGTGAGACCGACTTCTATCTTCAAAGTGTGGA  
ACGGGGACAACGCTTCTTGCGGCCGATGGGGACCCTGCTCGCCCAGATGGCTCCTGGACATTTGCCAGCGTCC  
TACTGAGCAGGAAGTGAAGGGCCGTAAGCAGCAGGCCAGGGGGACGTGAACGGGCTCGCCTGGCAACTGCCCA  
GGACAAGGCCCGCTCCAACAAAGGGCTCCTGGCCAGGATCTTTGGAGCCCCGCCACCCTCAGAGAGCATGGAGGG  
ACCTTCCCTTGTGAGGACTCCTTGAGGGCCTGGGTGGCCCCCTTCCATTTCTGCCCCTGCTCTGCTTCTGTCTA  
CCTCATACTAGAATGATCGTGACTACCCGGGCAGACATTTTACTGTGTTTCTCAGACCAAGTGTCTACTGATGGC  
CCAAACATGGAGTTTGTGGGCTTCCACTGTCCCCACTCCGAACCTCCTGTATGTGCCTGGCTGAGTCACCTAATT  
CATACTGTCATACTAGCATAATTATGACTATTGCATATGCTTGTTTTGTGACTCTTGGCTGCCTACGTCTGTA  
GGGTCCCCTGAAAAATCCCACTTCCCTGCCCCCAGAAAGGGCCTTTATTTCCAACCTAGGAGGATAATGCCTAGTCCA  
GGCAATCTTTCTCTGTTTAGCAGTCACAGGTGAGGGTGGTATTAGCATCTTTTTTATGTAGAAAAAATTGAGTTA  
ATGGGGTGGACTGGGTGGGAAGAAATACATTTCCCTAATGTATTTATAGAAAAATAAAATATTTTTATGTGCCTT  
TTTATTTTTGTGTTGGTGGGGAGGTCATTGGACAAGTTCCAACCTTTCATCTTGTGTTCCCTTCACCTTCATATCCTG  
ATCTTAGAGCCCCCTCCCCCTGCCACCCACCTTACTGTTTAACTGGATTTTTTTTTTCTATTTAATTTTTGTCT  
AATATCTTAGCCCAGTTTATCAATCAGTTATCTTAAGTCAGCATTTTCTAAGCCATTGTTTGAGGAAACAGTGAC  
AATAGGTAATAACACATCTTAGTATTAAGAGTTTTACAGGCCACTAGTATAAGATAGGCATCGTGGTAGATGCAT  
ATAAAGGGTGGAATGGGAGCCATGGCAGGTATAGAGTCCTCTCAATGGGAACCTGATTGATGATCACAGTCTTC  
AGTGGTGAGTCAGTCCTCACCAGTTTTCCAGATCATTCTTACAAAGTAACTGGGAGAATAATAAGTCTGAAAG  
AGTGTGGAGTGCTCCCAATTACAAAGAATGCTTCTGGGTGGAGTGTGAGTTGGAACCATTGTAAAGGTGGG  
CAAAGCCTAGTAGAGAACCAGTGCACCTCAGGTGCACTTACATATGGTGGGGCTGAGGCAAAGCAGCCCTGTAGG  
CTTCAAAGAATCAGTGTAAGCCACTAAAAGGAAGTGAACCTAGGTGTCACAATAAACAGTCTACACAGTCTCA  
CGTAGACCAAAATTCTGATCATTTTCCAGGCTGTTGCATGAAGTGATAGAGTATGATTATAATTTCTGTTTGCTT  
GTGCTGTTTGTGTTTTGTTTTTTCATCTGTCAATGTGATGATCTGTGTTTTATAGGGTAGAGTGGATTTGTCTACTT  
TGGCTGTAAATACCTAATCACATTATGATCTTGACAGGTGCACCTTACTGGGGAGAATAAAAAGGACCATACG  
GTAAA

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**FIGURE 2028**

MEAESEKAATEQEPLLEGTEQTLDAEEEQEESAAAACGSKKRVVPGIVYLGHIPPRFRPLHVRNLLSAYGEVGRV  
FFQAEDRFVRRKKKAAAAAGGKKRSYTKDYTEGWVEFRDKRIAKRVAASLHNTMPGARRRSPFRYDLWNLKYLHR  
FTWSHLSEHLAFERQVRRQRLRAEVAQAKRETD FYLQSVERGQRF LAADGDPARPDGSWTFAQRPEQEELRARKA  
ARPGGRERARLATAQDKARSNKGLLARIFGAPPPSESMEGPSLVRDS



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**FIGURE 2029**

ATTGCTTTCTCTTTTTCTTTCTTCCGGATGAGAGGCTAAGCCATAATAGAAAGAATGGAGAATTATTGATTGA  
CCGTCTTTATTCTGTGGGCTCTGATTCTCCAATGGGAATACCAAGGGATGGTTTTCCATACTGGAACCCAAAGGT  
AAAGACACTCAAGGACAGACATTTTTGGCAGAGCATAGATGAAAAATGGCAAGTCCCTGGCTTTCTTTCTGCTCA  
ACTTTCATGTCTCCCTCCTCTTGGTCCAGCTGCTCACTCCTTGCTCAGCTCAGTTTTCTGTGCTTGGACCCTCTG  
GGCCCATCCTGGCCATGGTGGGTGAAGACGCTGATCTGCCCTGTCACCTGTTCCCGACCATGAGTGCAGAGACCA  
TGGAGCTGAAGTGGGTAAGTTCCAGCCTAAGGCAGGTGGTGAACGTGTATGCAGATGGAAGGAAGTGGAAGACA  
GGCAGAGTGCACCGTATCGAGGGAGAACTTCGATTCTGCGGGATGGCATCACTGCAGGGAAGGCTGCTCTCCGAA  
TACACAACGTACAGCCTCTGACAGTGGAAGTACTTGTGTTATTTCCAAGATGGTGACTTCTATGAAAAAGCCC  
TGGTGGAGCTGAAGGTTGCAGCACTGGGTTCTAATCTTCACGTCGAAGTGAAGGGTTATGAGGATGGAGGGATCC  
ATCTGGAGTGCAGGTCCACCGGCTGGTACCCCCAACCCCAAATACAGTGGAGCAACGCCAAGGGAGAGAACATCC  
CAGCTGTGGAAGCACCTGTGGTTGCAGATGGAGTGGGCTATATGAAGTAGCAGCATCTGTGATCATGAGAGGCG  
GCTCCGGGGAGGGTGTATCCTGCATCATCAGAAATTCCCTCCTCGGCCTGGAAAAGACAGCCAGCATTTCATCG  
CAGACCCCTTCTTCAGGAGCGCCAGCCCTGGATCGCAGCCCTGGCAGGGACCCGCTATCTTGCTGCTGCTTC  
TCGCCGGAGCCAGTTACTTCTTGTGGAGACAACAGAAGGAAATAACTGCTCTGTCCAGTGAGATAGAAAGTGAGC  
AAGAGATGAAAGAAATGGGATATGCTGCAACAGAGCGGGAAATAAGCCTAAGAGAGAGCCTCCAGGAGGAAGTCA  
AGAGGAAAAAATCCAGTACTTGACTCGTGGAGAGGAGTCTTCGTCCGATACCAATAAGTCAGCCTGATGCTCTAA  
TGGAAAAATGGCCCTCTTCAAGCCTGGTGAGGAAATGCTTCAGATGAGGCTCCACCTTGTTAAATAAATTGGATG  
TATGGAAAAATAGACTGCAGAAAAGGGGAAGTCAATTTAGCTCACGAGTGGTCGAGTGAAGATTGAAAATTAACCT  
CTGAGGGCCAGCACAGCAGCTCATGCCTGTAATCCTAGCACTTTGGAAGGCTGAGGAGGGCGGATCACAAGGTCA  
GGAGATCAAGACCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATACAAAAAATAAAAAATTAGCCG  
GGCATGGTGACGGGCACCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATGGCATGAACCCGGAAGGCA  
GAGCTTGAGTGAAGCCGAGATCACGCCACTGCACTCCAGCCTGGGAGACAGAGCGAGACTCTGTCTCAAGAAAAA  
AAAAAAAAAAAAAAAAA

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**FIGURE 2030**

MKMASSLAFLLLNFHVSLLLVLTPCSAQFSVLGSPGILAMVGEDADLPCHLFPTMSAETMELKWVSSSLRQV  
VNVYADGKEVEDRQSAPYRGRTSILRDGITAGKAALRIHNVTASDSGKYLCYFQDGDIFYEKALVELKVAALGSNL  
HVEVKGYEDGGIHLECRSTGWYPQPQIQWSNAKGENIPAVEAPVVADGVGLYEVAASVIMRGGSGEGVSCIIRNS  
LLGLEKTASISIADEFFRSAPWIAALAGTLPILLLLLAGASYFLWRQQKEITALSSEIESEQEMKEMGYAATER  
EISLRESLQEELKRKKSST

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**FIGURE 2031**

ATGGACAGGACTGTCATTTCAGAAATACCACACTGTGAATGGCCACAGCTGTGAAGTTAGGAAAGCCCTGTCAAAG  
CAAGAGATGGTTAGTGCTTCATCCAGCCAAAGAGGTCGAAGTGGTTCTGGAAACTTTGCTGGTGGTCTTAGAAGT  
GGTTTCAGTGGGAATAACAACCTTTGGTCGTGGAGGAACTTCCGTGGTTCGTGGGGCCTTTGGTGGCAGCCGTGGT  
GGTGGTGGATATGATGGCAGTGGGGATGGCTATAATGGATATGGCCCAGATAAACAGTCTCCACTTGTTTCAGGAC  
TTCAACGGAGATATTCCACTCAGTCCTGCTTATGCCAGACACCTTGACAGAGCCTCTCCCAAGATAGCTAGGACT  
CAGGGAACATGCAGGCTGACACAAGCATTGATGATCTATATTAATGCAAGTGTAATATGGAATGGAGAATTTTTA  
CAAATGGTGTTCATTACCAGCCATTAATGCCATAGCTTTAATTTGTTTCATTAAGTTTAGCAGCCAGTTACCTAACA  
GGTCATCAAAGGAGGGACACAGAAGAGGCAAGCACTGATAATGAAAGGTCTATATCACAGGTGTGCTCAGAAAAG  
GCAAGCACAGATCACAGTTTCCAGGGCTGCCAGCAGAATGGATTTAATATTGCCACGTGGGAAGAAGAAAAAGCC  
ACAGGGTGCAGATATCAGGAATCTGAATTTCCGGGGCATAACGTGTGCACAGATGCAGCTTCAACAGATTCATCA  
TATCATCCCCTTCAGAGCTGCTGTGACAGTTTACACCAGATTAACCTCTCAGTTTCCAGAAAAAGAGGAAACTCTG  
GCCTAG

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FIGURE 2032

TTCCCCAGCATTTCGAGAACTCCTCTCTACTTTAGCACGGTCTCCAGACTCAGCCGAGAGACAGCAAACCTGCAGC  
GCGGTGAGAGAGCGAGAGAGAGAGAGAGACTCTCCAGCCTGGGAACATAACTCCTCTGCGAGAGGCGGAG  
AACTCCTTCCCCAAATCTTTTGGGGACTTTTCTCTCTTTACCCACCTCCGCCCCTGCGAGGAGTTGAGGGGCCAG  
TTGGGCGCGCGCGCGTCTTCCCGTTCGGCGTGTGCTTGGCCCCGGGAACCGGGAGGGCCCCGGCGATCGCGCGG  
CGGCCGCGCGAGGGTGTGAGCGCGCGTGGCGCGCCGCGGAGCCGAGGCCATGGTGCAGCAAACCAACAATGCCG  
AGAACACGGAAGCGCTGCTGGCCGGCGAGAGCTCGGACTCGGGCGCCGGCCTCGAGCTGGGAATCGCCTCCTCCC  
CCACGCCCGGCTCCACCGCCTCCACGGGCGGCAAGGCCGACGACCCGAGCTGGTGAAGACCCCCGAGTGGGCACA  
TCAAGCGACCCATGAACGCCTTCATGGTGTGGTTCGAGATCGAGCGGCGCAAGATCATGGAGCAGTCGCCCCGACA  
TGCACAACGCCGAGATCTCCAAGCGGCTGGGCAACGCTGGAAGCTGCTCAAAGACAGCGACAAGATCCCTTTCA  
TTCGAGAGGCGGAGCGGCTGCGCCTCAAGCACATGGCTGACTACCCGACTACAAGTACCGGCCAGGAAGAAGG  
TGAAGTCCGGCAACGCCAACTCCAGCTCCTCGGCCCGCCCTCCTCCAAGCCGGGGGAGAAGGGAGACAAGGTCG  
GTGGCAGTGGCGGGGGCGGCCATGGGGGCGGCGGCGGCGGGAGCAGCAACGCGGGGGGAGGAGCGGCGGGT  
CGAGTGGCGGCGGCGCCAACTCCAAACCGGCGCAGAAAAAGAGCTGCGGCTCCAAAGTGGCGGGCGGCGGGCG  
GTGGGGTTAGCAAACCGCACGCCAAGCTCATCTGGCAGGCGGCGGCGGCGGGAAAGCAGCGGCTGCCGCCG  
CCGCTCCTTCGCCGCCGAACAGGCGGGGGCCGCCCTGCTGCCCTGGGCGCCGCCGCCGACCACCACTCGC  
TGTACAAGGCGCGGACTCCAGCGCCTCGGCCTCCGCCTCCTCGGCAGCCTCGGCCTCCGCAGCGCTCGCGGGCC  
CGGGCAAGCACCTGGCGGAGAAGAAGGTGAAGCGCGTCTACCTGTTCGGCGGCCTGGGCACGTCGTCGTCGCCCC  
TGGGCGGCGTGGGCGCGGAGCCGACCCAGCGACCCCTGGGCCCTGTACGAGGAGGAGGGCGCGGGCTGCTCGC  
CCGACGCGCCAGCCTGAGCGGCGCAGCAGCGCCGCTCGTCCCCCGCCGCCGCGCTCGCCCGCCGACCACC  
GCGGCTACGCCAGCCTGCGCGCGCCTCGCCCGCCCCGTCCAGCGCGCCCTCGCACGCGTCTCTCGGCCTCGT  
CCCACTCCTCCTTCTCTCTCTCGGGCTCCTCGTCTCCGACGAGTTCGAAGACGACCTGCTCGACCTGA  
ACCCAGCTCAAACCTTTGAGAGCATGTCCCTGGGCAGCTTCAGTTCGTGCTCGGCGCTCGACCGGGACCTGGATT  
TTAACTTCGAGCCCGGCTCCGGCTCGCACTTCGAGTTCGCGGACTACTGCACGCCCGAGGTGAGCGAGATGATCT  
CGGGAGACTGGCTCGAGTCCAGCATCTCCAACCTGGTTTTTACCTACTGAAGGGCGCGCAGGCAGGGAGAAGGGC  
CGGGGGGGTAGGAGAGGAGAAAAAAGTGAAGGAGGCTCGTTGCCCCGCGTTCTCGTCTGTCGATCAAGGAGCGCGGGC  
AGGGAAAAAGAAAAGAAAAGTAAGCAGGGCTCGTTGCCCCGCGTTCTCGTCTGTCGATCAAGGAGCGCGGGC  
GTTTTGGACCCGCGCTCCCATCCCCACCTTCCCGGGCGGGGACCACTCTGCCAGCCGGAGGGACGCGGAGG  
AGGAAGAGGGTAGACAGGGGCGACCTGTGATTGTTGTTATTGATGTTGTTGTTGATGGCAAAAAAAGCGAC  
TTCGAGTTTGCTCCCCCTTGCTTGAAGAGACCCCTCCCCCTTCCAACGAGCTTCCGGACTTGTCTGCACCCCA  
GCAAGAAGGCGAGTTAGTTTTCTAGAGACTTGAAGGAGTCTCCCCCTTCTGTCATCACCACCTTGGTTTTGTTTT  
ATTTTGCTTCTTGGTCAAGAAAGGAGGGGAGAACCAGCGCACCCCTCCCCCTTTTTTTAAACGCGTGATGAA  
GACAGAAGGCTCCGGGGTGACGAATTTGGCCGATGGCAGATGTTTTGGGGGAACGCCGGGACTGAGAGACTCCAC  
GCAGGCGAATTCCCGTTTGGGGCTTTTTTCTCTCTCTTTTCCCTTGGCCCCCTCTGCAGCCGGAGGAGGAGA  
TGTTGAGGGGAGGAGCCAGCCAGTGTGACCGGCGCTAGGAAATGACCCGAGAACCCGTTGGAAGCGCAGCAGC  
GGGAGCTAGGGGCGGGGGCGGAGGAGGACGAACTGGAAGGGGGTTACGGTCAAACGAAATGGATTGTCACG  
TTGGGGAGCTGGCGGCGGCGGCTGCTGGGCCTCCGCCTTCTTTTCTACGTGAAATCAGTGAGGTGAGACTTCCCA  
GACCCCGGAGGCGTGGAGGAGAGGAGACTGTTTGATGTGGTACAGGGGCGAGTGGAGGGCGAGTGGTTTCGG  
AAAAAAGAAAAAAGGG

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**FIGURE 2033**

MVQQTNNANTEALLAGESSDSGAGLELGIASSPTPGSTASTGGKADDP SWCKTPSGHIKRPMNAFMVWSQIERR  
KIMEQSPDMHNAEISKRLGKRWKLLKDSKIPFIREAERLRLKHMADYPDYKYRPRKKVKSGNANSSSSAAASSK  
PGEKGDKVGGSGGGGHGGGGGGSSNAGGGGGGASGGGANSKPAQKKSCGSKVAGGAGGGVSKPHAKLILAGGGG  
GGKAAAAAASFQAEQAGAAALLPLGAAADHHSLYKARTPSASASASSAASASAALAAPGKHLAEKKVKRVYLF  
GLGTSSSPVGGVGAGADPSDPLGLYEEEGAGCSPDAPSLSGRSSAASSPAAGRSPADHRGYASLRAASPAPSSAP  
SHASSASSHSSSSSSSSGSSSSDDEFEDDLLDLNPSSNFESMSLGSFSSSSALDRDLDFNFEPGSGSHFEFPDYC  
TPEVSEMISSGDWLESSISNLVFTY

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**FIGURE 2034**

GGCCCGCGCGCGCGGCGGAAATCCGCGGTTTACAGCATGTGCGCCTCGGCCCCCTGCTGCGGAGGGGGAGGGAACCCCC  
ACCCAGCCCCGCGTCCGAGAAAGAACCCGAAATGCCCGGTCCCAGAGAGGAGAGCGAGGAGGAAGAGGACGAGGAC  
GACGAGGAGGAGGAGGAGGAGGAAAAAGAAAAGAGTCTCATCGTGGAAGGCAAGAGGGAAGAAAAGAGTAGAG  
AGGTTGACAATGCAAGTCTCTTCCCTTACAGAGAGAGCCATTTACAATTGCACAAGGAAAGGGGCAGAACTTTGT  
GAAATTGAGAGGATACATTTTTTTCTAAGTAAGAAGAAAACCGATGAACCTTAGAAATCTACACAACTGCTTTAC  
AACAGGCCAGGCCTGTGTCTCATTAAAGAAGAATGTGGGTCAGTTTCAGTGGCCTTTCCATTGAAAAAGGAAGT  
GTCCAATATAAAAAGAAGGAAGAAATGTTGAAAAATTTAGAAATGCCATGTTAAAGAGCATCTGTGAGGTTCTT  
GATTTGGAGAGATCAGGTGTAAATAGTGAAGTGTGAGAGGATCTTGAATTTCTTAATGCATCCAAAGCCTTCT  
GGCAAACCATTTGCCGAAATCTAAAAAACTTGTAGCAAAGGCAGTAAAAAGGAACGGAACAGTTCTGGAATGGCA  
AGGAAGGCTAAGCGAACCAATGTCTGAAATTTCTGTGAGATGAATCTAGTAGTGATGAAGATGAAAAAGAAAAAC  
AAGGAAGAGTCTTCAGATGATGAAGATAAAGAAAGTGAAGAGGAGCCACCAAAAAAGACAGCCAAAAAGAGAAAAA  
CCTAAACAGAAAGCTACTTCTAAAAGTAAAAAATCTGTGAAAAGTGCCAAATGTTAAGAAAGCAGATAGCAGCACC  
ACCAAGAAGAAATCAAAACAGTTCCAAAAAGAAAGTGAGTCTGAGGATAGTTTTCAGATGATGAACCTTTAATTAAA  
AAGTTGAAGAAACCCCTACAGATGAAGAGTTAAAGGAAACAATAAAGAAATTAAGTGGCCAGTGCTAACTTGGAA  
GAAGTCACAATGAAACAGATTTGCAAAAAGGTCTATGAAAATTATCCTACTTATGATTTAACTGAAAGAAAAGAT  
TTCATAAAAACAACTGTAAAAGAGCTAATTTCTTGAGATAGAGGACAGAGAAGATGACTCGTTCCCATAGATTTG  
AAGATCTGATTTATACCATTATACCAGCAAAGAGAATGTATTTTCTTTTCTAAATCCTTGTTAAGCAACGTTAGT  
AGAAGTACTGCTGACCTTTTTATCTTGAGTGTTATGTGAATTTGAGTTTGCTGTTTTAAATTGCATTTCTATGC  
CATTTTTAGTTTAAAATCTTGCATGGCATTAAATTGTTTCTTGCTTTTTATAGTTGTATTTTGTACATTTTGGATTT  
CTTTATATAAGGTCATAGATTTCTTGAGCTGTTGTGGTTTTTGTAGTGCATTAATATTAGCTTGCTTAAGGCATACT  
TTAATCAAGTAGAACAAAACTATTATCACCAGGATTTATACATACAGAGATTGTAGTATTTAGTATATGAAAT  
ATTTTGAATACACATCTCTGTCAGTGTGAAAATTCAGCGGCAGTGTGTCCATCATATTAATAATATACAAGCTAC  
AGTTGTCCAGATCACTGAATTGGAACCTTTTCTCCTGCATGTGTATATATGTCAAATTGTGAGCATGACAAAAGTG  
ACAGATGTTATTTTXXGTATTTTTTAAAAACAATTGGTTGTATATAAAGTTTTTTTATTTCTTTTGTGAGATCAC  
TTTTTAACTCACATAGGTAGGTATCTTTATAGTTGTAGACTATGGAATGTCAGTGTTTCCAGCCAAACAGTATGAT  
GGAACAGTGAAAGTCAATTCAGTGATGGCAACACTGAAGGAACAGTTACCTGCTTTGCTTCGAAAGTGTCATCA  
ATTTGTAATTTTAGTATTAAGTCTGTAAAAGTGTCTGTAGGTACGTTTTATATTATATAAGGACAGACCAAAAT  
CAACCTATCAAAGCTTCAAAAACCTTTGGGAAAGGGTGGGATTAAGTACAAGCACATTTGGCTTACAGTAAATGAA  
CTGATTTTTTATTAAGTCTTTTGGCCATATAAAATGCTGATATTTACTGGAACCTAGCCAGCTTACAGATTATG  
ACTAAAGTACCAGATTATAATGCCAGAATATAATGTGCAGGCAATCGTGGATGTCTCTGACAAAGTGTGTCTCAA  
AAATAATATACTTTTACATTAAAGAAATTTAATGTTTCTCTGGAGTTGGGGCTCTTGGCTTTCAGAGTTTGGTTA  
ATCAGTGTTGATTCTAGATGATCAACATAATGGACCACTCCTGAATGAGACTTAATTTTGTCTTTCAAATTTACT  
GTCTTAAATCAGTTTATTAAATCTGAATTTTAAAAATGCTGTTTATGACACAATGACACATTTGTTGACCAAT  
TAAGTGTTGAAAAATATCTTTGCATCATAGAACAGAAATATATAAAAAATATATGTTGAATGTTAACAGGTATTTT  
CACAGTTTGTCTTCTTGATAGTTACTCAGACACTAGGGAAAGGTAAATACAAGTGAACAAAATAAGCAACTAAAT  
GAGACCTAATAATTGGCCTTCGATTTTAAATATTTGTTCTTATAAACCTTGTCATAAAAAATAAATCTAAATCA

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**FIGURE 2035**

MSASAPAAEGEGTPTQPASEKEPEMPGPREESEEEEEDEDEEEEEEEKEKSLIVEGKREKKKVERLTMQVSSLQR  
EPFTIAQGKGQKLCEIERIHFFLSKKKTDELRLNLHKLLYNRP GTVSSLKKNVGQFSGFPFEKGSVQYKKKEEMLK  
KFRNAMLKSICEVLDLERSGVNSELVKRILNFLMHPKPSGKPLPKSKKTC SKGSKKERNSSGMARKAKRTKCP EI  
LSESSSDEDEKKNKEESSDDEDKESEEEPPKKTAKREKPKQKATSKSKKSVKSANVKKADSSTTKKNQNSSKKE  
SESEDSSDDEPLIKKLLKKPPTDEELKETIKKLLASANLEEVMTKQICKKVYENYPTYDLTERKDFIKTTVKELIS

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**FIGURE 2036A**

GGGGGAGGGAAACGGAGCAGTGACAGGTATCCCAGAGGGTGCTGCTGAGGCGACGATGGCCGAGGGGCCCCGAGGA  
AGCCCCGAGGCCACCCTCCCCGGGCAGGACGATGGCGGAGGGGACCACGAGCCCGTCCCTTCCCTGAGAGGCCCTCC  
TACCACCGCCGTCCCATGCCCCCGCGACGACCCCCAGGCCGAACCCAGGCCCGGGCCGCCACAGCCCCGGG  
CCTCGCGGCTGCCGCCGACGCCGACAAATTGGAGCCGCCGCGGAGCTCAGGAAGCGCGGGGAGGCGGCCCTCCGG  
CTCCGGTGACAGAGCTGCAGGAGCAGGCGGGCTGCGAGGCGCCCGAAGCCGCGGCCACGAGAGAGACCAGCTCG  
GCTGAGCGCCCCGCGAGTACTCCCGCAAGTGCACGAGTGGCTGTGGCAGTCTACTGCGGCTACCTCACCTGGCA  
CAGCGGCCTGGCCGCCTTCCCAGCCTACTGCAGCCCCAGCCCTCCCCGAGAGCTTCCCTTCGGGCGGCGCTGC  
AGTCCCCAGGCCGCGGCGCGCCGCCCCCGCAGCTGGGCTATTACAACCCCTTCTACTTCTGAGCCCCGGGGC  
CGCGGGGCTGACCCGCGGACAGCTGCCGGCATCAGCACCCCTGCTCCAGTCGCGGGCCTGGGACCCCGGGCTCC  
TCACGTGCAGGCGTCCGTCCGGGCCACTCCAGTGACGAGGGTAGGATCCGCGAGCCCTTCGCGAAGCCCGAGCGA  
GACCGGGCGACAGGCAGGCAGAGAATATGTTATTCCATCCTTGGCCACAGATTTATGGCAGAGATGGTGGATTT  
CTTTATTCTCTTTTATAAAAGCAACCATTGTCTTAAGCATTATGCACCTCAGTGGGATAAAGGATATCTCTAA  
GTTTGCTATGCATTATATAATAGAAGAAATAGATGAAGACACATCAATGGAAGACTTGCAGAAAATGATGGTTGT  
GGCACTTATATACAGATTATTAGTTTGTCTTATGAGATAATTTGCATTGGGGAGCAGGTGGAGCTACCCCAAG  
GAAGTTCTGCTGGGGCTTCGAGTTGTGACATGTGATACATCAGTGCTTATTGCACCAAGTCGGGTTTTAGTGAT  
TCCTTCTCAAATGTTAGCATTACAACGTCCACTATCCGAGCTTTGATCAAGAATTTTTCAATTGCTTCTTTTTT  
CCCTGCTTTTCATCACACTGCTGTTTTTTTTCAGCATAATCGAACAGCTTATGACATTGTAGCAGGAACCATTGTGGT  
AAAAAGAAATGGGGTCAGATGATGCCCCCAAAACCCTGATTCCACACACTAAGACTAAATTATGTATCAAGGC  
CATCAGTATCCCTGGGTTACACTAATTGATGATTTAGAAATTAAAGCAGTCACTCCAGTGTGATGCAGGTGACTA  
CTCTGAAAGTATTGATTATACTTGAATGCCAAAGAACTTGTCAGAAAGAAAACCTGTTAAATTCAAGTATTAA  
ATTTTTAGATCAAAAAGGCAAATGATTTTATAAACAATGGACAATATATACCTTTCTTAAGATCTAAGGTACTTTC  
TTAAGATCTAAGAATTTGCTGAAAGCATTTTCAGCTTTGAAATCTCCAAATGAACTTTTAAATTTATTTTGGTT  
TATCCCAAAATAATGGAAAATGTCCAGTTGTGTTTTGTAAACACCTATGTAACCTCATCTTTTAGTTTACACTTCC  
TGGGGAATTTGTCTTTGGTGTTTAGAGGAGGGAATGAGAACACAAATTGGATAATCCACTGTCTCCCATCCCAGG  
AGGTGGTGAGTTGGCTACAAGAGAAAGGGACAAGTGAGGCAGGCCTAGCAGTTCCCTTACCTGAAGTTTTCAAAT  
CCATACTGCAGTTCCCTCTCGTAATGATGTAACCTTTACAACCTATTCTTAATGCTTGAACATGTATTTAGGGGCAA  
GTTTCTCATGATGATGAAAAAGTATCAAGTCATATTGCTATGTTAATTGGTTTTTTTTTTTTTAAAGGTAAGTTAG  
TGATTACTGTTAATGGTGGGGAGTAAGTTTTCACTGTAAATTGAACTTATAATTTATGTGCAAGTGTTTTTCACT  
GCCCTGAATCAAATATAAATGTGGGGAGAAATCACCTCCATCAAACAGTTGCATATTTACTGTAAAAGTATTCC  
CAGTATGTGTGCAGCATGAAGAAAGTATTAGTGCTTCTCAGTGTTCTCAGTGTAATTTCTATTTATATACAGCAT  
ATTCACATACTACTTTCCCTTATATTTTATATAGTTCTATGACTGTTGAAACATCAAGGAGTTAAAAAATCTTAA  
TATTTATGATTAACCTCTAAGTACTATTAATTAATAGCTTGCAGAAATATTAGCAATTTTCCCATTTAGGACTATT  
CTCTCTAAAGCAAGAGAGACTAGCATTCCCAGACATCATTCTAGGGTCTTTAAGCTCATTTTGGGTCTGCTAAAG  
TTTGGGGGGAAATGTTACGCAAAGTGATCTGTGTATGTTGCCATTTTGCTTTATTCTTCTGTTGAAGCAAATTT  
GTGGGGTTTTATTATGTGTGTGTGCTTTTCCCTAGATGTCCAGTTAGCTGTGTGAGATATACCTGTACTATTTA  
TGGTTTAAAGTTTTGATTCTTAGGTATTTTCTCCAGCTCTGACATTGTTTTCAAAGACACACTAACTGCATTGC  
ACAGTTCAAATTTGATTACTTAAGGGATCAATCTAGGTGGTGTCTTGGTCTTAAATTTAACAGCAAACACAGC  
ACATATCTATTATCACTATATTAATTTTCAAAGGTTTTTCTTTGACGTTTAAACTGTGACAACAGATATTCACA  
TTTGATTATAGAACTTAATGTCTATTAATAATTTTAGTACAAAATTTTATAAACCCTGTTTTTCAAATAAGTT  
TATGTCAAATCCAGCTTCCCAGAAACACTAATAATTAAGTACATCAATGTACTAAATAAATCATTAGTTGCACC  
CATGGGGAAGATTGTGTTACTGCCCTTCACAGTGAAAAAAGAAAAATCTTTCATTTTTTAAATTTAGGAGATGTT  
ACGTAACCTGGCACTTTAGTAGTGATACACTAGCATTAGTTTATACACCCTTTTGCCGCTGGGGAATTCAGT  
TGAAATGTCCCTCAATCATATAGGTCTGGAATACATCTTTCATTACATAATTTCTGCTCAGATAATGGAATAGTTT  
GCCATCGAGATTATTTTCATTTATACTATAAAACAAAAGCAAACCTAGTCCAGTTTAAATTTTGTACTTAGAATA  
TTGCACATTTTCTATATATGAGTTATTCAGATTAGTATCTATGTAGGTTTCAGTCAGATCCAACCATGGATTTCGAG  
GTATTATACTGTATAACCCTACAAAATACATAGAAGTATTATTTGCCCTTCATAATAGAACCCAAGAGTCTGTTTC  
AATTTATGAATTCAGTATTTGCACCGAGATTTTGATTCCCAAAGTTTGGAAAAAATGACAAAACAACGAGGGAA  
GAAGGAACCAGACCTTAGTGCCACATATTTTCTCTTGGGGTTGTAAGGTAGTCTCCTGCTTTCCAGAACACTTT



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**FIGURE 2036B**

ATTATATTTCACTTATAGACCTGATTTTCTGTGTCAAAGTATAATTCTCATGCTGAAGCTGTAGCCTAAAAAGCC  
AAAAGAAAGTTGTCTTCATTGTACAAACATATTCATCACTTTAACAATAAGGGAACAAAATTTAGTATTCAAGCT  
GAGTGAGAATACTGTTTCAATGAGCATGTCCCTAAGATAAACCAGAATTGGCAGTTAATTTAGGCGTCTAGAAAA  
TCTCAGTTCCCACCAGTAAAATTATCCTGAGTAGCTAATGCACCTTGAGAAAAATCTGGCATACTGAATAAATAA  
CATTAACTTGGGAGCCAAGAGCTGGGTAAGCCTTACCTTTAGACTACTCTGTGACTACAGAAATAAAGCCAGCAC  
TTTTGGAATAATAAGCCTTCACTTGTGAGTATCATAAAGAGTATTGCCCACTGAACCTTGCTCCCACTGGTTT  
AATAGTTACTTATTTCTGCCTAAGCACTCACCTTCCGATTTTACCCAAGTATATATATAGGATAGAAAAAATGC  
ATTATATTTGAGAGCTACTTCGCCCCAAATTACAAAATGAGTGTTTTTAGATTCAAGTGACAGTAAAAGGATTTGT  
TCCCTTCAGTGACTTGAGTGTTTTAGTTATGCATAAGTATTTCTAGCAAAGGAAGGGTAGAAAGGAATTGAAAAT  
TAATTTACACTAGTTGCTACTTGGAATAAAGGGCTTTTTGAGGGGGGTATGGATATTAAATGTTTTCGTTATAT  
ACTTATCCCTATTAAAACAGGCAGTTGTTTCTTTGAATATGCCTAAATAACAGTATTCTTAAATCTGACAGACA  
AGTAACATGTCAATTACTTGATATTCCTTGTCTCCAGTACCACAGGCCACTCTTGACATCCCATGTTTGCCTGGA  
TAAAGTTCCTCATTTCAAACAGTATACATACTTCTTTGCAGTTCATTATAGTAAGGCTTAACCTGTAAACAGTAT  
CTGATGGCCCACCTATAAATAAAATTCAGCATTCTATTTTAATAATTTGTATGCCACCAATTTGTATTATTTGT  
CTCAATAAAATACTTAGTCATCAATGC

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**FIGURE 2037**

CTCCCCGCGCCGCCCGCGCAGGCGCCCCGCGCCCGCGCGTCCGCGCGCGCGCAGCCAGGAGCCGCTGCACCATGC  
CCCCCATAGATGCGGACCTCAAGCTCGACTTCAAGGATGTCCTGCTCCGACCTAAGCGGAGCAGCCTCAAGAGCC  
GAGCCGAGGTGGATCTTGAACGCACCTTCACGTTTCGAAATTCAAAGCAGACCTACTCAGGGATTCCCATCATCG  
TGGCCAACATGGACACTGTGGGCACGTTTGAGATGGCAGCCGTGATGTCACAGCACTCCATGTTTACAGCAATTC  
ATAAGCATTACTCCCTGGATGACTGGAAGCTCTTTGCCACAAATCACCCAGAATGCCTGCAGAATGTAGCCGTGA  
GTTTCAGGCAGTGGGCAGAATGATCTGGAAAAGATGACCAGCATCCTGGAAGCTGTGCCACAGGTTAAGTTTATTT  
GCCTGGATGTGGCCAATGGGTATTCAGAAATTTTGTGGAATTCGTGAACTTGTCCGTGCCAAATTTCTGAAC  
ACACCATTATGGCAGGGAACGTGGTGACAGGAGAAATGGTAGAAGAGCTTATTCTTTCCGGAGCAGATATCATCA  
AAGTGGGAGTTGGACCAGGTTCTGTGTGCACCACCCGCACCAAGACGGGAGTGGGGTACCCCGAGCTGAGTGCCG  
TCATTGAGTGTGCCGACTCTGCCCCATGGCCTGAAGGGCCACATCATCTCTGATGGAGGCTGTACGTGTCCAGGGG  
ATGTCGCCAAAGCCTTTGGAGCTGGAGCAGATTTTGTCAIGCTGGGAGGAATGTTTTGGGTCATACGGAGTGTG  
CTGGAGAAGTGTGTTGAGAGGAACGGACGGAAGCTCAAGCTCTTCTACGGGATGAGCTCTGACACCGCCATGAACA  
AGCACGCAGGAGGAGTTGCTGAGTACAGAGCCTCTGAGGGTAAGACTGTGGAAGTTCCCTTACAAAGGAGATGTGG  
AAAACACTATCCTGGATATTCTCGGGGGACTGAGGTCCACGTGCACCTACGTGGGGGCCGCCAACTCAAGGAGC  
TCAGCAGGAGGGCAACATTATCCGGGTGACCCAGCAGCACAAACACCGTGTTTCAGCTTAACCCCTGGGGACAAAGCA  
GCGTCTGGCTCGAGTGAAGCGTCCAAACCTGCTTTTCCCATCTCCCCCAAGTCTGTTCCGTGAGAGCTTCTGG  
CTGCTCCTGAATGGTGAATGCTGTGTCTCTCTCTCTCTGCTGCTGCTGAGGCTTGGGGCTCTCCCGCCT  
GCCTTCTCGGGGCCAGACGCAAGGCACCGATTGGGCCAACATCAGAGCCCTGCTGCCCAGAACTCATAACCTCA  
TTGTTCAAACCAACACTTGACCTTTCTCTTTTCTCTCTCTCTCCCTTTCTTTGTTTTTCTTTCTTTTTTAA  
AAGAAGATGGTTTCACTTTAATATAATGCTATTATCTT

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**FIGURE 2038**

MPRIDADLKLDKDVLLRPKRSSLKSRAEVDLERTFTFRNSKQTYSGIPIIVANMDTVGTFEMA AVMSQHSMTA  
IHKHYSLDDWKLFATNHPECLQNVAVSSGSGQNDLEKMTSILEAVPQVKFICLDVANGYSEHFVEFVKLVRAKFP  
EHTIMAGNVVTGEMVEELILSGADIIKVGVGPGSVCTTRTKTGVGYPQLSAVIECADSAHGLKGHIISDGGCTCP  
GDVAKAFGAGADFVMLGGMFSGHTECAGEVFERNGRKLKLFYGMSSDTAMNKHAGGVAEYRASEGKTVEVPYKGD  
VENTILDILGGLRSTCTYVGA AKLKELSRRATFIRVTQQHNTVFS

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**FIGURE 2039A**

GTTTTACTAAAGTGAATTTTTTTTTGTTTGCTTCGTTTCGTTCTTTGGCTCTTTTTTTTTTCCTTCCCAATTTTCGGAT  
TTATTTCAAGGCGAATCTGGCTTTGGGGGAAGAGGAAGAAAAGTCGGATTACAAGATCAACCACCACCAACAACA  
ATAAAAACCACCAGGATATTTTTTTGCAAATTTCTGACGGCTTTAAATTCATGAAGCAATTGTCCCCTTTTGCAA  
TCAGCATTTGGATCTCAGAAATGAGCAAGGAAAGACCCAAGAGGAATATCATTGAGAAGAAATACGATGACAGTGA  
TGGGATTCCGTGGTCAGAAGAACGGGTGGTACGTAAAGTCCTTTATTTGTCTCTGAAGGAGTTCAAGAATTTCCCA  
GAAGAGGCAGCATGCGGAAGGCATTGCTGGGAGCCTGAAAACCTGTGAATGGGCTCCTTGGTAATGACCAGTCTAA  
GGGATTAGGACCAGCATCAGAACAGTCAGAGAATGAAAAGGACGATGCATCCCAAGTGTCTCCACTAGCAACGA  
TGTTAGTTCTTCAGATTTTGAAGAAGGGCCGTCGAGGAAAAGGCCAGGCTGCAAGCACAAAGGAAGTTTGCTCA  
GTCTCAGCCGAATAGTCCCAGCACAACTCCAGTAAAGATAGTGGAGCCATTGCTACCCCTCCAGCTACTCAGAT  
ATCAGACCTCTCTAAAAGGAAGCCTAAGACAGAAGATTTTCTTACCTTTCTCTGCCTTCGAGGTTCTCCTGCGCT  
GCCCCACAGCATGGTGTATTTTGAAGCTCTCAGGATGAGGAGGAAGTCGAGGAGGAAGATGATGAGACAGAAGA  
CGTCAAAACAGCCACCAACAATGCTTTCATCTTCAGTCCAGTCCAGCCCCAGGAAAGGAAAAACCCACAAACATGT  
TCACAACGGGCATGTTTTCAATGGTTCCAGCAGGTCAACACGGGAGAAGGAACCTGTTCAAAAAACAAAAGCAA  
AGAGGCCACTCCCGCAAAGGAGAAGCACAGCGATCACGGGCTGACAGCCGCCGGGAGCAGGCTTCAGCTAACCA  
CCCCGAGCGGGCCCCCTCCACGGGTTCCTCGGCCAAGGGGCTTGCTGCCACCCATCACCACCCCCCTCTGCATCG  
GTCGGCTCAGGACTTACGGAACAGGTTTCTAAGGTAAACGGAGTCACTCGAATGTCATCTCTGGGTGCAGGTGT  
AACCAGTGCCAAAAAGATGCGCGAGGTTCAGACCTTCACCATCCAAAACCTGTGAAGTACACTGCCACGGTGACGAA  
GGGGGCTGTACATACACCAAAGCCAAGAGAGAACTGGTCAAGGACACCAAACCCAATCACCACAAGCCCAGTTC  
CGCTGTCAACCACACAATCTCAGGGAACCTGAAAGTAGCAATGCAAAAACCCGCAAACAGGTGCTATCCCTCGG  
GGGGGCTCCAAGTCCACTGGGCCCCCGCTCAATGGCCTCAAGGTCAAGTGGCAGGTTGAACCCAAAGTCATGCAC  
TAAGGAGGTGGGGGGGCGGCAGCTGCGGGAGGGCTGCAGCTGCGGGAGGGGCTGCGGAACCTCAAGAGGAGACT  
GGAAGAGGCACACCAGGCGGAGAAGCCGAGTCGCCCCCAAGAAGATGAAAGGGGCGGCTGGCCCCGCCGAAGG  
CCCTGGCAAGAAGGCCCGGCGGAGAGAGGTCTGCTGAACGGACACGTGAAGAAGGAAGTGCCGGAGCGCAGTCT  
GGAGAGGAATCGGCCGAAGCGGGCCACGGCCGGGAAGAGCACGCCAGGCAGACAAGCACATGGCAAGGCGGACAG  
CGCTCTGTGAAAATCGTTTCTACCTCGCAACCCGAGTCCGTGCACAAGCCGAGGACTCGGGCAAGGCGGAGAA  
GGCGGGCGGCAAGGCCGGGTGGGCGGCCATGGACGAGATCCCCGTCTCAGGCCCTCCGCCAAGGAGTTCCACGA  
TCCGCTCATCTACATCGAGTCCGTCCGCGCTCAGGTGGAGAAGTTCGGGATGTGCAGGGTGATCCCCCTCCGGA  
CTGGCGGGCCCGAGTGCAAGCTCAACGATGAGATGCGGTTTGTACGCAGATTTCAGCACATCCACAAGCTGGGCGG  
GCGTGGGGCCCCAACGTGCAGCGGCTGGCCTGCATCAAGAAGCACCTCAAATCTCAGGGCATCACCATGGACGA  
GCTCCCGCTCATAGGGGGCTGTGAGCTCGACCTGGCCTGCTTTTTCCGGCTGATTAATGAGATGGGCGGCATGCA  
GCAAGTGACTGACCTCAAAAAATGGAACAACTAGCAGACATGCTGCGCATCCCCAGAAGTGGCCAGGACCGGCT  
GGCCAAGCTGCAGGAGGCTACTGCCAGTACCTACTCTCCTACGACTCCCTGTCCCCAGAGGAGCACCGGCGGCT  
GGAGAAGGAGGTGCTGATGGAGAAGGAGATCCTGGAGAAGCGCAAGGGGCGCTGGAAGGCCACACAGAGAACGA  
CCACCACAAGTTCACCCCTCTGCCCCGCTTCGAGCCCCAAGAATGGGCTCATCCACGGCGTGGCCCCAGGAACGG  
CTCCGCAGCAAGCTCAAGGAGGTGGGCCAGGCCAGTTGAAGACTGGCCGGCGGCGACTCTTCGCTCAGGAAAA  
AGAAGTGGTCAAGGAAGAGGAGGAGGACAAAGGCGTCTCAATGACTTCCACAAGTGCATCTATAAGGGAAGGTC  
TGTTTCTCTAACAATTTTTATCGAACAGCGAGGAATATCATGAGCATGTGTTTCAGCAAGGAGCCTGCCCCAGC  
CGAAATCGAGCAAGAGTACTGGAGGCTAGTGGAAGAGAAGGACTGCCACGTGGCAGTGCATGCGGCAAGGTGGA  
CACCACACTCACGGCAGTGGATTCCCAGTAGGAAAATCAGAACCTTTTCGAGGCATGGATGGAACCTCACCGT  
CCTCCCCAATAACACAGGCTCCATCCTGCGTCACCTCGGTGCTGTGCCTGGAGTGACTATTCCCTGGCTAAATAT  
TGGCATGGTCTTTTCTACCTCATGCTGGTCTCGAGACCAAAATCACCTTCCATACATTGACTACTTACACACTGG  
TGCTGACTGCATTTGGTATTGCATTCTGCTGAGGAGGAGAACAAGCTGGAAGATGTGGTCCACACCCTGCTGCA  
AGCCAATGGCACCCCAGGGCTGCAGATGCTGGAAGCAACGTCATGATCTCCCCGGAGGTGCTGTGCAAGAGGG  
GATCAAGGTGCACAGGACCGTGCAGCAGAGTGGCCAGTTTGTGCTGCTGCTTCCCGGGATCCTTTGTGTCAAAGT  
GTGCTGTGGGTACAGCGTGTCTGAAACCGTGCACCTTGTCTACCACCCAGTGGACAAGTATGGGCTTTGAGACCGC  
CAAGGAAATGAAGCGTCGCCATATAGCTAAGCCATTCTCCATGGAGAAGTACTCTACCAGATTGCACAAGCAGA  
AGCAAAAAAAGAAAACGGTCCCACTCTCAGTACCATCTCAGCCCTCCTGGATGAGCTCAGGGATACAGAGCTGCG  
GCAGCGCAGGCAGCTGTTTCGAGGCTGGCCTCCACTCCTCCGCACGCTATGGCAGCCACGATGGCAGCAGCAGGT

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**FIGURE 2039B**

GGCGGACGGGAAGAAAAAGCCTCGAAAGTGGCTGCAGTTGGAGACGTGAGAGAGGAGGTGTCAGATCTGCCAGCA  
CCTGTGCTACCTGTCCATGGTGGTACAAGAGAACGAAAACGTCGTGTTCTGTCTGGAGTGTGCTCTGCGCCACGT  
GGAGAAACAGAAGTCTGCGGAGGGCTGAAGTTGATGTACCGCTACGATGAGGAACAGATTATCAGTCTGGTCAA  
TCAGATCTGCGGCAAAGTGTCTGGTAAAAACGGCAGCATTGAGAACTGTCTCAGTAAACCCACACCAAAAAGAGG  
TCCCCGCAAGAGAGCGACAGTGGACGTGCCCCCTCCCGTCTGTGAGCCTCCAGTTCATCCAAAAGTGCTTCGAG  
CTCATCATGAAGATGCCAACGCCCCGTGGTCGATTTATATATATTTTTTTTGTAAATTATTATATTCTAGTTTGGAGT  
ACTTGCTGTAGGATTCAAGCTGTCTTTGCACTAGCTCTAAAGAAGATTTTTCTTCTGGTTTTAGAGAACTAATTTT  
GTTTTAGCATTAAACTGTTGAACTTTTTTTTTGTACTTAGAAAACCTAGATACTGCAGTCAGATTTTGGAACTGC  
CGTATAGTCACTGTTTTAAAAACCCCGGAGGGGCTGTATTAATTTGTATTGCCCCATGGCTGACAAAAGCCTTTT  
TTTTTGGTTTTTGATTTTTTTTTTTTTTTTGTAACTGTTGGGGGGAAAAAGGCTTTTTTAACCCATTTTTGAAGAGGGTG  
AAGTTTGGAGAACAATTTAAAAACCATCAGTCATGTGAGCAGATTTTTTAGAAGGGATAGGAGACACACGCGCA  
CACACACACACACAGAACTTGAAATGGCTTTGCTTTGGCTGTGCTCTTCTGCCGTGTGCCAGATGAGCTTGTG  
ATCTGGGAAGCCGGGGCACCCCCGTTTTGTTTCTCTGGGCGGTTGTGGCAGCTGAAGGCGGACGTTGTTTCCTAA  
CCATAGGTGGAACGAGGAGACGGGAGCGAGTGGGCTCTCCACCAGCACATCACTATGCATCTGTTCCAGGAAAGA  
AGAAAAGCGAGCGAGGAAGACGGAAAAGACTGCCTGCCTTGGAGGGGTCACATGAGGGAGACCTGTGCCTGATTT  
CATTAGGAAATCCATTCTGTTATTTTTTGGTGCTGTTGGCTACTTTATCAAAAAACCCTTCAATAGCATCCTTAA  
GATTTAAAAAAGGAAAAAAGTATGGAAGCCGTAAGTGCTTCTTTGTTCATCGACGTGCA  
ATCTTTCTAACATTCCATCTCCATCTCACCGCTTCTTGTGTTGACACCTTCAAGTCAGCATTAACTTTCTTTT  
AAAACCTGTTTTCATTTATGATCATGTAGAGAGCCACTAGGAGGCCTGCAGTTATTTTTGAATGTGAAAATGCATT  
TGCGTTTCATCTTGTCTATTTTTTCTCTTCATGTTGTAACAAAAAGGAAAAAAGAAAAAATCCCATCCCTTTT  
GTACATATGCCTGTAAATTGTTTTAAATACTTGAGCCTTTTTCTCGGTGGGGGGTGGGGAGGGGGGTGAGAAGAC  
AAGATGAAGAAAAGCCTTACATTTAGTTTCTTCATCGGTTGGATTGGATGCTTACAGGGTTTTTCTTGTAACAT  
TTATAAGTGCTGCTTACATCACTGAACAACAACAAAAAATAATAATGGAGTAGCTGTTGCCCTTCTCCGGTTGT  
GTGTACAGTATGTGTGGAATAAAAAAGGGAACTGTTTTCAAGCTGTTCTTTGTTTCATAATTGGATTTCATCA  
ATCCCGTAGCTACCCATATTGCACTGAGCTTGCCAGTGGTGACTGCCAGGAACGTCCTATGATCCACTTTGTTGG  
TTGTTGTTGCAGAAGACTGAACTGTTTTGGAATATTTAACAATTACAGAAACAGTCAAGTGTTTTCCAATGTGGT  
TGTCGGTTTTCTATGGCCTTGCTGTGTACTTTCCCTCTTTTTGACAGTAACTTCTGCCTATGGCTTACAGTTTG  
ACATTTAATTTATTAGCGCTGCTCTGCACCCCTCCCTTGGGAGGGAGACTTCATGTGGTTTTATTGCGAGTTTTTT  
GTTTACTTTTCAGTTTTGTACTACAAGTTTTAATAATAAAAAACAAAGTTTTTTGGA

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**FIGURE 2040**

MSKERPKRNIIQKKYDDSDGIPWSEERVVRKVLYLSLKEFKNSQKRQHAEGIAGSLKTVNGLLGNDQSKGLGPAS  
EQSENEKDDASQVSSSTNDVSSSDFEEGPPSRKRPRLOAQRKFAQSQPNPSTTPVKIVEPLPPPPATQISDLSKR  
KPKTEDFLTFLCLRGSPALPNSMVYFGSSQDEEEVEEEDDEDEDVKTATNNASSSCQSTPRKGKTHKHVHNGHVF  
NGSSRSTREKEPVQKHKSKEATPAKEKHSDDRADSRRQASANHPAAAPSTGSSAKGLAATHHHPPPLHRS AQDLR  
KQVSKVNGVTRMSSLGAGVTSAKKMREVRPSPSKTVKYTATVTKGAVTYTKAKRELVKDTKPNHHKPSSAVNHTI  
SGKTESSNAKTRKQVLSLGGASKSTGPAVNGLKVSGRNLNPKSCTKEVGGRQLREGLQLREGLRNSKRRLEEAHQA  
EKPQSPPKMKGAAGPAEGPGKKAPAERGLLNHGVKKEVPERSLERNRPKRATAGKSTPGRQAHGKADSASCENR  
STSQPESVHKPQDSGKAEGGGKAGWAAMDEIPVLRPSAKEFHDPLIYIESVRAQVEKFGMCRVIPPPDWRPECK  
LNDEMRFVTQIQHIHKLGRRWGPNVQRLACIKKHLKSQGITMDELPLIGGCELD LACFFRLINEMGGMQQVTDLK  
KWNKLADMLRIPRTAQDRLAKLQEAYCQYLLSYDSLSP EEHRRLEKEVLMEKEILEKRKGPLEGHTENDHHKFHP  
LPRFEPKNGLIHGVAPRNGFRSKLKEVGQAQLKTGRRRLFAQEKEVVKEEEDKGV LND FHKCIYKGRSVSLTTF  
YRTARNIMSMCFSKEPAPAEIEQEYWR LVEEKDCHVAVHCGKVD TNTHGSGFPVGKSEFFSRHGWNLT VLPNNTG  
SILRHLGAVPGVTIPWLNIGMV FSTSCWSRDQNHLPYIDYLHTGADCIWYCIPAE EENKLEDVVHTLLQANGTPG  
LQMLESNVMISPEVLCKEGIKVHRTVQQSGQFVVC FPGSFVSKVCCGYSVSETVHFATTQWTSMGFETAKEMKRR  
HIAKPF S MEKLLYQIAQAEAKKENGPTLSTISALLDEL RDTELRRRQLFEAGLHSSARYGSHDGSSTVADGKKK  
PRKW LQLETSE RRCQICQHLCYLSMVVQENENNVFCLECALRHVEKQKSCRG LKLMYRYDEEQIISLVNQICGKV  
SGKNGSIENCLSKPTPKRGPRKRATVDVPPSRLSASSSSKSASSSS

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**FIGURE 2041**

GCCCATGCCCGCCCCGCGTAGACGCTGTGGTGTGTACGGCCGCAGCGGGGCAGGGGGTCTCCGAGGCCGCTGCG  
GCACGTAATCAGAGAGCTTTCAAAAGCATCACTCATGAACTGACTTGTTTAGAGCCCTCCCCTGCTCCCTGCGC  
TGCACTGACAATGCCATCTATACCCCTCAGCATGACCCAGGAGGAACATATTTTCATTCAATCACTCTTGGAAG  
GCACCCAGAATTGCTAACCAAATTCCTGGCTCCCTTTGAAATGAGGCCTGTATTTGTGGAGGTCACGGGACATACA  
GGTGTTCACATCATCCTCTGTGAGATGAAGAAGAGTTGCATGCAGCAGTTCATTAAAGATCGATGGCAAGGTCCGA  
ACTGACAAAACCTACCCTGCTGGATTCATGGATGTCATCAGCATTGACAAGATGGGAGAGAATTTTGTCTGATC  
TATGACACCAAGGGTCACTTTGCTGTACATTGTATTACACCTGAGGAAGCCAAAATTGGTGTGATCACCAACAGA  
GAGAGGCACCTGGATCTTTTGACGTGTTTCACATGAAAGATGCCAATGGCCACAGCTTTGCCACTCACTTTCC  
AACATTTTGTATTATTGGCAAGGGCAACAAACCATGGATTTCTCTTCCTGA

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**FIGURE 2042**

CCTTTCCGTCTGGCGGCAGCCATCAGGTAAGCCAAGATCGGTGCATACAAGTACATCCAGGAGCTATGGAGAAAG  
AAGCAGTCTGATGTCATGCGCTTTCTTCTGAGGGTCCGCTGCTGGCAGTACCGCCAGCTCTCTGCTCTCCACAGG  
GCTCCCCGCCCCACCCGGCCTGATAAAGCGCGCCGACTGGGCTACAAGGCCAAGCAAGGTTACGTTATATATAGG  
ATTGCGTGTTCGCCGTGGTGGCCGTAACCAGCTAAAGTTTGCTCGAAGCCTTCAGTCCGTTGCAGAGGAGCGAGTT  
GGACGCCACTGTGGGGCTCTGAGGGTCCTGAATTCTTACTGGGTTGGTGAAGATTCCACATACAAATTTTTTGAG  
GTTATCCTCATTGATCCATTCCATAAAGCTATCAGAAGAAATCCTGACACCCAGTGGATCACCAAACCAGTCCAC  
AAGCACAGGGAGATGCGTGGGCTGACATCTGCAGGCCGAAAGAGCCGTGGCCTTGGAAAGGGCCATAAGTTCAC  
CACACTATTGGTGGCTCTCGCCGGGCAGCTTGGAGAAGGCGCAATACTCTCCAGCTCCACCGTTACCGCTAATAT  
AAGTAAAGTCTGTAAAATTCATACTTAATAAA



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**FIGURE 2043**

MGAYKYIQELWRKKQSDVMRFLLRVRCWQYRQLSALHRAPRPTRPDKARRLG YKAKQGYVIYRIRVRRGGRNQLK  
FARSLQSVAEERVGRHCGALRVLNSYWVGEDSTYKFFEVLIDPFHKAIRRNPD TQWITKPVHKKHREMRLTSAG  
RKSRLGKGHKFHHTIGGSRRAAWRRRNTLQLHRYR

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**FIGURE 2044A**

CCGACCAACACCAACACCCAGCTCCGACGCAGCTCCTCTGCGCCCTTGCCGCCCTCCGAGCCACAGCTTTCCTCC  
CGCTCCTGCCCCCGGCCGTCGCCGTCTCCGCGCTCGCAGCGGCCTCGGGAGGGCCAGGTAGCGAGCAGCGACC  
TCGCGAGCCTTCCGCACTCCCGCCCGGTTCCCGGCCGTCCGCTATCCTTGCCCCCTCCGCTTTCCTCCGCGCC  
GGCCCCGCTCGCTTATGCCCTCGGCGCTGAGCCGCTCTCCGATTGCCCCGCGACATGAGCTGCAACGGAGGCTCC  
CACCCGCGGATCAACACTCTGGGCCGATGATCCGCGCCGAGTCTGGCCCCGACCTGCGCTACGAGGTGACCAGC  
GGCGGCGGGGGCACCAGCAGGATGTACTATTCTCGGCGCGGCTGATCACCAGCAGAACTCGGACGGCTACTGT  
CAAACCGGCACGATGTCCAGGCACCAGAACCAGAACCATCCAGGAGCTGCTGCAGAACTGCTCCGACTGCTTG  
ATGCGAGCAGAGCTCATCGTGCAGCCTGAATTGAAGTATGGAGATGGAATACAACCTGACTCGGAGTCGAGAATTG  
GATGAGTGTGTTTGGCCAGGCCAATGACCAATGGAATCCTCGACAGCTTGATCAGAGAGATGCGGCAGATGGGC  
CAGCCCTGTGATGCTTACCAGAAAAGGCTTCTTCAGCTCCAAGAGCAAATGCGAGCCCTTTATAAAGCCATCAGT  
GTCCCTCGAGTCCGCGAGGGCCAGCTCCAAGGGTGGTGGAGGCTACACTTGTGAGAGTGGCTCTGGCTGGGATGAG  
TTCACCAACATGTACCAAGTGAATGTTTGGGGTGGATGAGGCAGCAAAGGGCGGAGATGGACATGGTGGCCTGG  
GGTGTGGACCTGGCCTCAGTGGAGCAGCACATTAACAGCCACCGGGGCATCCACAACCTCCATCGGCGACTATCGC  
TGGCAGCTGGACAAAATCAAAGCCGACCTGCGCGAGAAATCTGCTATCTACCAGTTGGAGGAGGAGTATGAAAAC  
CTGCTGAAAGCGTCTTTTGAAGAGATGGATCACCTGCGACAGCTGCAGAACATCATTACGGCCACGTCCAGGGAG  
ATCATGTGGATCAATGACTGCGAGGAGGAGGAGCTGCTGTACGACTGGAGCGACAAGAACACCAACATCGCTCAG  
AAACAGGAGGCCTTCTCCATACGCATGAGTCAACTGGAAGTTAAAGAAAAAGAGCTCAATAAGCTGAAAACAAGAA  
AGTGACCAACTTGTCTCAATCAGCATCCAGCTTCAGACAAAATTGAGGCCTATATGGACACTCTGCAGACCGCAG  
TGGAGTTGGATTCTTCAGATCACCAAGTGCATTGATGTTTCTGTAAGAAAATGCTGCCTACTTTTCAGTTTTTT  
GAAGAGGCGCAGTCTACTGAAGCATACCTGAAGGGGTCCAGGACTCCATCAGGAAGAAGTACCCCTGCGACAAG  
AACATGCCCTGCGACACCTGCTGGAACAGATCAAGGAGCTGGAGAAAGAACGAGAGAAAATCCTTGAATACAAG  
CGTCAGGTGCAGAACTTGGTAAACAAGTCTAAGAAGATTGTACAGCTGAAGCCTCGTAACCCAGACTACAGAAGC  
AATAAACCCATTATTCTCAGAGCTCTCTGTGACTACAAACAAGATCAGAAAATCGTGCATAAGGGGGATGAGTGT  
ATCCTGAAGGACAACAACGAGCGCAGCAAGTGGTACGTGACGGGCCCGGGAGGCGTTGACATGCTTGTTCCTCT  
GTGGGGCTGATCATCCCTCCTCCGAACCCACTGGCCGTGGACCTCTCTTGCAAGATTGAGCAGTACTACGAAGCC  
ATCTTGGCTCTGTGGAACCAAGCTCTACATCAACATGAAGAGCCTGGTGTCTTGGCACTACTGCATGATTGACATA  
GAGAAGATCAGGGCCATGACAATCGCCAAGCTGAAAACAATGCGGCAGGAAGATTACATGAAGACGATAGCCGAC  
CTTGAGTTACATTACCAAGAGTTTATCAGAAATAGCCAAGGCTCAGAGATGTTTGGAGATGATGACAAGCGGAAA  
ATACAGTCTCAGTTCACCGATGCCAGAAAGCATTACCAGACCTGGTCAATCAGCTCCCTGGCTATCCCCAGCAC  
CAGACAGTGACCACAACCTGAAATCACTCATGGAACCTGCCAAGATGTCAACCATAATAAAGTAATTGAAACC  
AACAGAGAAAATGACAAGCAAGAAACATGGATGCTGATGGAGCTGCAGAAGATTGCGAGGCAGATAGAGCACTGC  
GAGGGCAGGATGACTCTCAAAAACCTCCCTCTAGCAGACCAGGGATCTTCTCACCACATCAGAGTAAAATTAAC  
GAGCTTAAGAGTGTGAGAATGATTACAAGCAATTGCTGAGGTCTCAACCAGCTTAAAGATATGCTTGCCAAC  
TTCAGAGGTTCTGAAAAGTACTGCTATTTACAGAATGAAGTATTTGGACTATTTAGAAACTGGAAAATATCAAT  
GGTGTACAGATGGCTACTTAAATAGCTTATGCACAGTAAGGGCACTGCTCCAGGCTATTCTCCAAACAGAAGAC  
ATGTTAAAGGTTTATGAAGCCAGGCTCACTGAGGAGGAACTGTCTGCCTGGACCTGGATAAAGTGAAGCTTAC  
CGCTGTGGACTGAAGAAAATAAAAAATGACTTGAACCTGAAGAAGTCGTTGTTGGCCACTATGAAGACAGAACTA  
CAGAAAGCCCAGCAGATCCACTCTCAGACTTCACAGCAGTATCCACTTATGATCTGGACTTGGGCAAGTTCGGT  
GAAAAAGTCACACAGCTGACAGACCGCTGGCAAAGGATAGATAAACAGATCGACTTTAGGTTATGGACCTGGAG  
AAACAAATCAAGCAATTGAGGAATTATCGTGATAACTATCAGGCTTTCTGCAAGTGGCTCTATGATGCTAAACGC  
CGCCAGGATTCTTAGAATCCATGAAATTTGGAGATTCCAACACAGTCATGCGGTTTTTGAATGAGCAGAAGAAC  
TTGCACAGTGAATATCTGGCAAACGAGACAAATCAGAGGAAGTACAAAAAATGCTGAACCTTGCGCCAATTCA  
ATTAAGGATTATGAGCTCCAGCTGGCCTCATAACCTCAGGACTGGAACTCTGCTGAACATACCTATCAAGAGG  
ACCATGATTACAGTCCCTTCTGGGGTGATTCTGCAAGAGGCTGCAGATGTTTATGCTCGGTACATTGAACCTACTT  
ACAAGATCTGGAGACTATTACAGGTTCTTAAGTGAGATGCTGAAGAGTTTGAAGATCTGAAGCTGAAAAATACC  
AAGATCGAAGTTTTTGAAGAGGAGCTCAGACTGGCCCGAGATGCCAACTCGGAAAACTGTAATAAGAACAAATTC  
CTGGATCAGAACTGCAGAAATACCAGGCAGAGTGTTCAGTTCAAAGCGAAGCTTGGAGCCTGGAGGAGCTG  
AAGAGACAGGCTGAGCTGGATGGGAAGTCGGCTAAGCAAAATCTAGACAAGTGTCTACGGCCAAATAAAGAAGCTC

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**FIGURE 2044B**

AATGAGAAGATCACCCGACTGACTTATGAGATTGAAGATGAAAAGAGAAGAAGAAAATCTGTGGAAGACAGATTT  
GACCAACAGAAGAATGACTATGACCAACTGCAGAAAGCAAGGCAATGTGAAAAGGAGAACCTTGGTTGGCAGAAA  
TTAGAGTCTGAGAAAGCCATCAAGGAGAAGGAGTACGAGATTGAAAGGTTGAGGGTTCTACTGCAGGAAGAAGGC  
ACCCGGAAGAGAGAATATGAAAATGAGCTGGCAAAGGTAAGAAACCACTATAATGAGGAGATGAGTAATTTAAGG  
AACAAGTATGAAACAGAGATTAACATTACGAAGACCACCATCAAGGAGATATCCATGCAAAAAGAGGATGATTCC  
AAAAATCTTAGAAACCAGCTTGATAGACTTTCAAGGGAAAATCGAGATCTGAAGGATGAAATTGTCAGGCTCAAT  
GACAGCATCTTGCAGGCCACTGAGCAGCGAAGGCGAGCTGAAGAAAACGCCCTTCAGCAAAAAGGCCTGTGGCTCT  
GAGATAATGCAGAAGAAGCAGCATCTGGAGATAGAATGAAGCAGGTCATGCAGCAGCGCTCTGAGGACAATGCC  
CGGCACAAGCAGTCCCTGGAGGAGGCTGCCAAGACCATTGAGGACAAAAATAAGGAGATCGAGAGACTCAAAGCT  
GAGTTTCAGGAGGAGGCCAAGCGCCGCTGGGAATATGAAAATGAACTGAGTAAGGTAAGAAACAATTATGATGAG  
GAGATCATTAGCTTAAAAAATCAGTTTGAGACCGAGATCAACATCACCAAGACCACCATCCACCAGCTCACCATG  
CAGAAGGAAGAGGATACCAAGTGGCTACCGGGCTCAGATAGACAATCTCACCCGAGAAAACAGGAGCTTATCTGAA  
GAAATAAAGAGGCTGAAGAACTCTAACCAGACCACAGAGAATCTCAGGAGGGTGAAGAAGACATCCAACAG  
CAAAAGGCCACTGGCTCTGAGGTGTCTCAGAGGAAAACAGCAGCTGGAGGTTGAGCTGAGACAAGTCACTCAGATG  
CGAACAGAGGAGAGCGTAAGATATAAGCAATCTCTTGATGATGCTGCCAAAACCATCCAGGATAAAAACAAGGAG  
ATAGAAAGGTTAAACAACCTGATCGACAAAAGAAAACAAATGACCGGAAATGCCTGGAAGATGAAAACGCGAGATTA  
CAAAGGTTCCAGTATGACCTGCAGAAAACAAACAGTAGTGCGACGGAGACAATAAACAACCTGAAGGTTTCAGGAG  
CAAGAAGTACACGCCTGAGGATCGACTATGAAAGGGTTTCCAGGAGAGGACTGTGAAGGACCAGGATATCACG  
CGGTTCCAGAACTCTCTGAAAGAGCTGCAGCTGCAGAAGCAGAAGGTGAAGAGGAGCTGAATCGGCTGAAGAGG  
ACCGCGTCAGAAGACTCCTGCAAGAGGAAGAAGCTGGAGGAAGAGCTGGAAGGCATGAGGAGGTCGCTGAAGGAG  
CAAGCCATCAAAATCACCAACCTGACCCAGCAGCTGGAGCAGGCATCCATTGTTAAGAAGAGGAGTGAGGATGAC  
CTCCGGCAGCAGAGGGACGTGCTGGATGGCCACCTGAGGGAAAAGCAGAGGACCCAGGAAGAGCTGAGGAGGCTC  
TCTTCTGAGGTGAGGCGCTGAGGCGGCGAGTTACTCCAGGAACAGGAAAGTGTCAAACAAGCTCACTTGAGGAAT  
GAGCATTTCCAGAAGGCGATAGAAGATAAAAGCAGAAGCTTAAATGAAAGCAAAATAGAAATTGAGAGGCTGCAG  
TCTCTCACAGAGAACCTGACCAAGGAGCACTTGATGTTAGAAGAAGAACTGCGGAACCTGAGGCTGGAGTACGAT  
GACCTGAGGAGAGGACGAAGCGGACAGTGATAAAAATGCAACCATCTTGGAACCTAAGGAGCCAGCTGCAG  
ATCAGCAACAACCGGACCCTGGAAGTGCAGGGGCTGATTAATGATTTACAGAGAGAGAGGGAAAATTTGAGACAG  
GAAATTGAGAAATTCCAAAAGCAGGCTTTAGAGGCATCTAATAGGATTCAGGAATCAAAGAATCAGTGTACTCAG  
GTGGTACAGGAAAGAGAGAGCCTTCTGGTGAAAATCAAAGTCTTGAGCAAGACAAGGCAAGGCTGCAGAGGCTG  
GAGGATGAGCTGAATCGTGCAAAATCAACTCTAGAGGCAGAAACCAGGGTGAAACAGCGCCTGGAGTGTGAGAAA  
CAGCAAATTCAGAAATGACCTGAATCAGTGGAAGACTCAATATTCCCGCAAGGAGGAGGCTATTAGGAAGATAGAA  
TCGGAAGAGAGAAAGAGTGAGAGAGAGAAGAACAGTCTTAGGAGTGAGATCGAAAGACTCCAAGCAGAGATCAAG  
AGAATTGAAGAGAGGTGCAGGCGTAAGCTGGAGGATTCTACCAGGGAGACACAGTCACAGTTAGAAACAGAACGC  
TCCCGATATCAGAGGGAGATTGATAAACTCAGACAGCGCCCATATGGGTCCCATCGAGAGACCCAGACTGAGTGT  
GAGTGGACCGTTGACACCTCCAAGCTGGTGTGTTGATGGGCTGAGGAAGAAGGTGACAGCAATGCAGCTCTATGAG  
TGTCAGCTGATCGACAAAACAACCTTGACAAAATATTGAAGGGGAAGAAGTCAGTGGAAGAAGTTGCTTCTGAA  
ATCCAGCCATTCTTCGGGGTGACAGATCTATCGCTGGAGCATCTGCTTCTCCTAAGGAAAATACTCTTTGGTA  
GAGGCCAAGAGAAAAGAAATTAATCAGCCCAGAATCCACAGTCATGCTTCTGGAGGCCAGGCAGCTACAGGTGGT  
ATAATTGATCCCCATCGGAATGAGAAGCTGACTGTGACAGTGCCATAGCTCGGGACCTCATTGACTTCGATGAC  
CGTCAGCAGATATATGCAGCAGAAAAGCTATCACTGGTTTTGATGATCCATTTTCAGGCAAGACAGTATCTGTT  
TCAGAAGCCATCAAGAAAATTTGATTGATAGAGAAACCGGAATGCGCCTGCTGGAAGCCCAGATTGCTTCAGGG  
GGTGTAGTAGACCTGTGAACAGTGTCTTTTTGCCAAAAGATGTGCGCTTGGCCCGGGGGCTGATTGATAGAGAT  
TTGTATCGATCCCTGAATGATCCCCGAGATAGTCAGAAAACTTTGTGGATCCAGTCACCAAAAAGAAGGTCAGT  
TACGTGCAGCTGAAGGAACGGTGCAGAATCGAACCACATACTGGTCTGCTCTTGCTTTTCAGTACAGAAGAGAAGC  
ATGTCTTTCCAAGGAATCAGACAACCTGTGACCGTCACTGAGCTAGTAGATTCTGGTATATTGAGACCGTCCACT  
GTCAATGAACTGGAATCTGGTCAGATTTCTTATGACGAGGTTGGTGAGAGAATTAAGGACTTCCTCCAGGGTTCA  
AGCTGCATAGCAGGCATATACAATGAGACCACAAAACAGAAGCTTGGCATTTATGAGGCCATGAAAATTGGCTTA  
GTCCGACCTGGTACTGCTCTGGAGTTGCTGGAAGCCCAAGCAGCTACTGGCTTTATAGTGGATCCTGTTAGCAAC

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**FIGURE 2044C**

TTGAGGTTACCAAGTGGAGGAAGCCTACAAGAGAGGTCTGGTGGGCATTGAGTTCAAAGAGAAGCTCCTGTCTGCA  
GAACGAGCTGTCACTGGGTATAATGATCCTGAAACAGGAAACATCATCTCTTTGTTCCAAGCCATGAATAAGGAA  
CTCATCGAAAAGGGCCACGGTATTTCGCTTATTAGAAGCACAGATCGCAACCGGGGGGATCATTGACCCAAAGGAG  
AGCCATCGTTTTACCAAGTTGACATAGCATATAAGAGGGGCTATTTCAATGAGGAACTCAGTGAGATTCTCTCAGAT  
CCAAGTGATGATACCAAAGGATTTTTTGACCCCAACACTGAAGAAAATCTTACCTATCTGCAACTAAAAGAAAGA  
TGCATTAAGGATGAGGAAACAGGGCTCTGTCTTCTGCCTCTGAAAGAAAAGAAGAAACAGGTGCAGACATCACAA  
AAGAATACCTCAGGAAGCGTAGAGTGGTCATAGTTGACCCAGAAACCAATAAAGAAATGTCTGTTTCAGGAGGCC  
TACAAGAAGGGCCTAATTGATTATGAAACCTTCAAAGAACTGTGTGAGCAGGAATGTGAATGGGAAGAAATAACC  
ATCACGGGATCAGATGGCTCCACCAGGTGGTCTGGTAGATAGAAAGACAGGCAGTCAGTATGATATTCAAGAT  
GCTATTGACAAGGGCCTTGTGACAGGAAGTTCTTTGATCAGTACCGATCCGGCAGCCTCAGCCTCACTCAATTT  
GCTGACATGATCTCCTTGAAAAATGGTGTGCGCACACAGCAGCATGGGCAGTGGTGTGAGCGATGATGTTTTT  
AGCAGCTCCCGACATGAATCAGTAAGTAAGATTTCCACCATATCCAGCGTCAGGAATTTAACCATAAGGAGCAGC  
TCTTTTTTCAGACACCCTGGAAGAATCGAGCCCCATTGCAGCCATCTTTGACACAGAAAACCTGGAGAAAATCTCC  
ATTACAGAAGGTATAGAGCGGGGCATCGTTGACAGCATCACGGGTGAGAGGCTTCTGGAGGCTCAGGCCTGCACA  
GGTGGCATCATCCACCCAACCACGGGCCAGAAGCTGTCACTTCAGGACGCAGTCTCCAGGGTGTGATTGACCAA  
GACATGGCCACCAGGCTGAAGCCTGCTCAGAAAGCCTTCATAGGCTTCGAGGGTGTGAAGGGAAAGAAGAAGATG  
TCAGCAGCAGAGGCAGTGAAAGAAAATGGCTCCCGTATGAGGCTGGCCAGCGCTTCTGGAGTTCCAGTACCTC  
ACGGGAGGTCTTGTGACCCGGAAGTGCATGGGAGGATAAGCACCGAAGAAAGCCATCCGGAAGGGGTTTCATAGAT  
GGCCGCGCCGCACAGAGGCTGCAAGACACCAGCAGCTATGCCAAAATCCTGACCTGCCCCAAAACCAATTAAAA  
ATATCCTATAAGGATGCCATAAATCGCTCCATGGTAGAAGATATCACTGGGCTGCGCCTTCTGGAAGCCGCTCC  
GTGTCGTCCAAGGGCTTACCCAGCCCTTACAACATGTCTTCCGGCTCCGGGTCCCGCTCCGGCTCCCGCTCGGGA  
TCTCGCTCCGGATCTCGCTCCGGGTCCCGCAGTGGGTCCCGGAGAGGAAGCTTTGACGCCACAGGGAATTCTTCC  
TACTCTTATTCTACTCATTTAGCAGTAGTTCTATTGGGCACTAGTAGTCAGTTGGGAGTGGTTGCTATACCTTG  
ACTTCATTTATATGAATTTCCACTTTATTAAATAATAGAAAAGAAAATCCCGGTGCTTGCACTAGAGTGATAGGA  
CATTCTATGCTTACAGAAAATATAGCCATGATTGAAATCAAATAGTAAAGGCTGTTCTGGCTTTTTATCTTCTTA  
GCTCATCTTAAATAAGCAGTACACTTGGATGCAGTGCCTCTGAAGTGCTAATCAGTTGTAACAATAGCACAAATC  
GAACTTAGGATTTGTTTCTTCTCTTCTGTGTTTCGATTTTTGATCAATTCTTTAATTTTGAAGCCTATAATACA  
GTTTTCTATTCTTGGAGATAAAAAATTAAATGGATCACTGATATTTTAGTCATTCTGCTTCTCATCTAAATATTTT  
CATATTCTGTATTAGGAGAAAATTACCTCCCAGCACCAGCCCCCTCTCAAACCCCCAACCCAAAACCAAGCAT  
TTTGAATGAGTCTCCTTTAGTTTCAGAGTGTGGATTGTATAACCAATATACTCTTCGATGTACTTGTGTTGGTTT  
GGTATTAATTTGACTGTGCATGACAGCGCAATCTTTCTTTGGTCAAAGTTTTCTGTTTATTTTGCTTGTCATA  
TTCGATGTACTTTAAGGTGTCTTTATGAAGTTTGCTATTCTGGCAATAAACTTTTAGACTTTT

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**FIGURE 2045**

TCCAAGAAGAGGAAGTTTGTCACTGATGGCATCTTCTAAGCTGAAATGAATGAGTTTCTTACTCAGGAGCTGGCT  
GAAGATGGCTACTCTGGAGTTGAGATGCGAGTTACACCAACCAGGACAGAAATCATTGTCTTAGCCACCAGAACA  
CAGAATGTTCTTGGTGAGAAGGGCCGGCGGATTCGGGAACTGACTGCTGTAGTTCAGAAGAGGTTTGGCTCTCCA  
GAGGGCAGTGTAGAGCTTTATGCTGAAGAGGTGGCCACTAGGGGTCTGTGTGCCATTGCCCAGGCAGAGTCTCTG  
CCTTACAAACTCCTAGGAGGGCTTGCTGTGCGGAGGGCCTGCTATGGTGTGTCGCGGTTTCATCATGGAAACTGGG  
GCCAAAGGCTGTGAGGTCGTGGTGTCTGGGAAACTCTGAGGACAGAGAGCTAAATCCATGAAGTTTGTGGACGGC  
CTGATGATCCACAGCAGAGACCCTGTAACTACTACGTTGACACTGCTGTGCGCCATGTGTTGCTCAGACAGAGT  
GTGCTGGGCATCAAGGTGAAGATCATGCTGCCCTGGGACCCAAAGATGAGATAACTGCCCACCACCCCATCTCA  
GAACAGAAGGGTGGGA

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**FIGURE 2046**

MNEFLTQELAEDGYSGVEMRVTPTRTEIIVLATRTQNVLGEKGRRIRELTAVVQKRFGSPEGSVELYAEVATRG  
LCAIAQAESLPYKLLGGLAVRRACYGVS RFIMETGAKGCEVVVSGKL

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**FIGURE 2047**

ATGACCAGGTTTCATCATCGCCTCTCTCCTCCCCCTCTACCTTTCTCCCTGGTTTCCATAGAGCAGAAATCTGGGTC  
AAGGTGGAGTGCATTGGATCAAGAGTTGCTATGATTTGGGAAAAGCTCTGCAGGATAAGTCGAATAAAATCAGAC  
CTTGCAGAAACTCAATCTGGCCCCCTGGGAACTCTCCGGTGTGGAGCTGGAGGAAAAACCAGTACAGTACTCTCTC  
AGGAAAACAAGCTCAGAGGCGGAATCAACAAGACAGCTGACGAACACATCCTCTTCAAGAGAGGCCAGGGTCTCA  
AGCTCAAGTGGCCAAGGCAAGACGGGTCAAAGTCAGAGTGGTGGTCACAGTCCTGGAGGTGGCAAGAAGGATGAC  
AAGGACAAGAAAAAGAAATATGAACCTCCTGTACCAACTGGAGTGGGAAAAAGAAGAAAAACAAAAGGATCAGAT  
GTTGCCAGCAAACTGCCACTGGAATCGGGAAACAAATGGAACCATTAGAAGAAAAGCAAGAGGAGGAAAGATCAAA  
GGTGGACGATCTGAGGGGACCCCGATGTCAGTAGGAACCTTGGGAAGAGATCAATGACAGTCATGCCATCGTGTCT  
ACATCTGTGGGCTCAGGACACTACGCCAACATTCTTTCATTTGTAGACAAGGATCTGCTGGCAACTGGCTGCTCA  
GTCCTGCTCAATCACAAGGTGCATGCCATGAGAGGGGTGCTGATGGATGACGTGGATCCCCCTGGTCACAGTGATG  
AAGGTGGAAAAGGTCCCCCAGGAGACCTATGCCAATACTGGGAGGTTGGATAATCAAATTCAGGAAATTAAGGAA  
TCTGTGGAGCTTCCTCTCACCCATGCTGAACATTATGAAGAGATGGGTATAAAGCCTCCTAAGGGGGTCAATTCTC  
TATGGTCCACCTGGCATAGTTAAACCTTGCTAGCCAAAGCGGTAGCAAACCAAACCTCAGCCACTTTCTTGAAA  
GTGGTTGGCTCTGAACTTATTCAGAAGTACCTAGGTGATGGGCCCCAACTTGTACGGGAATTGTTTCAAGTTGCT  
GGAGAACATGCACCATCCATCGTGTCTTACTGATGAACTGACGCCATTGGGACAAAAAGATATGACTCAAATTCT  
GGTGAAGCTGGTCTGATGGCCTTAAGAGAACGTAGAATGAAAGCAACAAATGAAGACTTCAAAAAATCTAAAGAA  
AATGTTCTTTATAAGAAACAGGAAGGCACCCCTGAGGGGCTGTCTCTCTAG

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**FIGURE 2048**

MSVGTLEEINDSHAIVSTSVGSGHYANILSFVDKDLLATGCSVLLNHKVHAMRGVLMDDVDPLVTVMKVEKVPQE  
TYANTGRLDNQIQEIKESVELPLTHAEHYEEMGIKPPKGVILYGPPGIVKTLLAKAVANQTSATFLKVVGSELIQ  
KYLGDGPKLVRELFQVAGEHAPSIVFTDETDAIGTKRYDSNSGEAGLMALRERRMKATNEDFKKSKENVLYKKQE  
GTPEGLSL



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**FIGURE 2049**

GGGGGGCTCGGGCTGGGGGCGCGGCCTGTGCCGGCCGCCACCCTCCTTGCATAAAAGCCGGAGCCCGCGGGGC  
CGGCGCTCTCAGCCCGTCGGTTCCCGAGCGCCTTCCCGGTGACCCCGCAGTGGGTGTGTGAGGGGAGGACGGACA  
GACCCAGACGCCGCCGGACCAGGAGGACGCTGACGAGGCACCATGCGTGAGATCGTGACATCCAGGCGGGCCAG  
TGCGGCAACCAGATCGGCGCCAAGTTTTGGGAGGTCATCAGTGATGAGCATGGGATTGACCCCACTGGCAGTTAC  
CATGGAGACAGTGATTTGCAGCTGGAGAGAATCAATGTTTACTACAATGAAGCCACTGGTAACAAATATGTTCT  
CGGGCCATCCTCGTGATCTGGAGCCAGGCACGATGGATTTCGGTTAGGTCTGGACCATTTCGGCCAGATCTTCAGA  
CCAGACAATTTCTGTGTTTGGCCAGAGTGGAGCCGGGAATAACTGGGCCAAGGGCCACTACACAGAGGGAGCCGAG  
CTGGTCGACTCGGTCTTGATGTGGTGAGGAAGGAGTCAGAGAGCTGTGACTGTCTCCAGGGCTTCAGCTGACC  
CACTCTCTGGGGGGCGGCACGGGGTCCGGGATGGGCACCCTGCTCATCAGCAAGATCCGGGAAGAGTACCCAGAC  
CGCATCATGAACACCTTCAGCGTCATGCCCTCACCCAAGGTGTCAGACACGGTGGTGGAGCCCTACAACGCCACC  
CTCTCGGTCCACCAGCTGGTGGAAAACACAGATGAAACCTACTGCATTGACAACGAGGCCCTGTATGACATCTGC  
TTCCGCACCCTGAAGCTGACCACCCCCACCTACGGGGACCTCAACCACCTGGTGTTCGGCCACCATGAGCGGGGTC  
ACCACCTGCCTGCGCTTCCCGGGCCAGCTGAACGCAGACCTGCGCAAGCTGGCGGTGAACATGGTGCCCTTCCCT  
CGCCTGCACTTCTTCATGCCC GGCTTCGCGCCCCCTGACCAGCCGGGGCAGCCAGCAGTACCGGGCGCTCACGGTG  
CCCAGCTCACCCAGCAGATGTTGACTCCAAGAACATGATGGCCGCTGCGACCCGCGCCACGGCCGCTACCTG  
ACGGTGGCTGCCATCTTCCGGGGCCGCATGTCCATGAAGGAGGTGGACGAGCAGATGCTCAACGTGCAGAACAAG  
AACAGCAGCTACTTCGTGGAGTGGATCCCCAACACGTGAAGACGGCCGTGTGCGACATCCCGCCCCGCGGCCTG  
AAGATGTCGGCCACCTTCATCGGCAACAGCACGGCCATCCAGGAGCTGTTCAAGCGCATCTCCGAGCAGTTCAG  
GCCATGTTCCGGCGCAAGGCCTTCCTGCACTGGTACACGGGCGAGGGCATGGACGAGATGGAGTTCACCGAGGCC  
GAGAGCAACATGAACGACCTGGTGTCCGAGTACCAGCAGTACCAGGACGCCACGGCCGACGAACAAGGGGAGTTC  
GAGGAGGAGGAGGGCGAGGACGAGGCGTAGATGCCCCGCGAGACGGGTTAGGGAAAGCGGAGGAGGAAAGCGAG  
GGGGTGGGGGGCTTCCCGGGACGATAACCTGGCAGTGGAAAGGAAAGAAGCATGGTCTACTTTAGGTGTGCGCTGG  
GTCTCTGGTGCTCTTCACTGTTGCCTGTCACTTTTTTTTTTCTTTTTTGTAAATATTGATGACATCAATGTAACAT  
TTGAGATATTTCTGAATTACTGTTGTAATGGCTAAAATCACATAAACGTTTGTGTCGG

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**FIGURE 2050**

GCCCGCCGGTCCACGCCGCGCACCGCTCCGAGGGCCAGCGCCACCCGCTCCGCAGCCGGCACCATGCGCGAGATC  
GTGCACATCCAGGCGGGCCAGTGCGGCAACCAGATCGGCGCCAAGTTTTGGGAGGTCATCAGCGATGAGCATGGG  
ATCGACCCACAGGCAGTTACCATGGAGACAGTGAAGTTCAGCTGGAGAGAATCAACGTGTACTACAATGAGGCT  
GCTGGTAACAAATATGTACCTCGGGCCATCCTGGTGGATCTGGAGCCTGGCACCATGGACTCTGTCAGGTCTGGA  
CCCTTCGGCCAGATCTTCAGACCAGACAACCTTCGTGTTTCGGCCAGAGTGGAGCCGGGAATAACTGGGCCAAGGGC  
CACTACACAGAGGGAGCCGAGCTGGTCGACTCGGTCTGGATGTGGTGAGGAAGGAGTCAGAGAGCTGTGACTGT  
CTCCAGGGCTTCAGCTGACCCACTCTCTGGGGGGCGGCACGGGGTCCGGGATGGGCACCCTGCTCATCAGCAAG  
ATCCGGGAAGAGTACCCAGACCGCATCATGAACACCTTCAGCGTCATGCCCTCACCCAAGGTGTCAGACACGGTG  
GTGGAGCCCTACAACGCCACCCTCTCGGTCCACCAGCTGGTGGAAAACACAGATGAAACCTACTCCATTGATAAC  
GAGGCCCTGTATGACATCTGCTTCCGCACCCTGAAGCTGACCACCCACCTACGGGGACCTCAACCACCTGGTG  
TCGGCCACCATGAGCGGGGTACCCACCTGCCTGCGCTTCCCGGGCCAGCTGAACGCAGACCTGCGCAAGCTGGCG  
GTGAACATGGTGCCCTTCCCTCGCTGCACCTTCTCATGCCCGGCTTCGCGCCCCTGACCAGCCGGGGCAGCCAG  
CAGTACCGGGCGCTCACGGTGCCGAGCTCACCCAGCAGATGTTGACTCCAAGAACATGATGGCCGCTGCGAC  
CCGCGCCACGGCCGCTACCTGACGGTGGCTGCCATCTTCCGGGGCCGCATGTCCATGAAGGAGGTGGACGAGCAG  
ATGCTCAACGTGCAGAACAAGAACAGCAGCTACTTCGTGGAGTGGATCCCCAACAACGTGAAGACGGCCGTGTGC  
GACATCCCGCCCCGCGGCCTGAAGATGTGGGCCACCTTCATCGGCAACAGCACGGCCATCCAGGAGCTGTTCAAG  
CGCATCTCCGAGCAGTTCACGGCCATGTTCCGGCGCAAGGCCTTCCTGCACTGGTACACGGGCGAGGGCATGGAC  
GAGATGGAGTTCACCGAGGCCGAGAGCAACATGAACGACCTGGTGTCCGAGTACCAGCAGTACCAGGACGCCACG  
GCCGACGAACAAGGGGAGTTCGAGGAGGAGGAGGGCGAGGACGAGGCTTTAAAAACTTCTCAGATCAATCGTGCAT  
CCTTAGTGAACCTTCTGTTGTCCTCAAGCATGGTCTTTCTACTTGTAACCTATGGTGCTCAGTTTTGCCTCTGTGA  
GAAATTCACACTGTTGATGTAATGATGTGGAACCTCTCTAAAAATTACAGTATTGTCTGTGAAGGTATCTATACT  
AATAAAAAAGCATGTGTAG

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**FIGURE 2051**

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGSYHGSDSLQLERINVYYNEAAGNKYVPRAILVDLEPGTMDS  
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKESESCDCLQGFQLTHSLGGGTGSGMGTL  
LISKIREEYPDRIMNTFSVMPSPKVSDTVVEPYNATLSVHQLVENTDETYSIDNEALYDICFRTLKLTTPTYGDL  
NHLVSATMSGVTTCLRFPQQLNADLRKLAVNMVFPRLHFFMPGFAPLTSRGSQQYRALTVPELTQQMFDSKNMM  
AACDPRHGRYLTVAAlFRGRMSMKEVDEQMLNVQNKNSYFVEWIPNNVKTAVCDIPPRGLKMSATFIGNSTAIQ  
ELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVSEYQQYQDATADEQGEFEEEEGEDEA

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**FIGURE 2052**

CCGCGTTCCTGCCGGCACCGCGCCTGCCCTCTGCCGCGCTCCGCCCTGCCGCCGACCGCACGCCCGCCGCGGGAC  
ATGGCACACGCACCGGCACGCTGCCCCAGCGCCCGGGGCTCCGGGGACGGCGAGATGGGCAAGCCCAGGAACGTG  
GCGCTCATCACCGGTATCACAGGCCAGGATGGTTCCCTACCTGGCTGAGTTCCTGCTGGAGAAAGGCTATGAGGTC  
CATGGAATTGTACGGCGGTCCAGTTCATTTAATACGGGTCTGAATTGAGCATCTGTATAAGAATCCCCAGGCTCAC  
ATTGAAGGAAACATGAAGTTGCACTATGGCGATCTCACTGACAGTACCTGCCTTGTGAAGATCATTAATGAAGTA  
AAGCCACAGAGATCTACAACCTTGGAGCCCAGAGCCACGTCAAAATTTCTTTGACCTCGCTGAGTACACTGCG  
GACGTTGACGGAGTTGGCACTCTACGACTTCTAGATGCAGTTAAGACTTGTGGCCTTATCAACTCTGTGAAGTTC  
TACCAAGCCTCAACAAGTGAACCTTTATGGGAAAGTGCAGGAAATACCCAGAAGGAGACCACCCCTTTCTATCCC  
CGGTCACCCCTATGGGGCAGCAAACTCTATGCCTATTGGATTGTGGTGAACCTCCGTGAGGCGTATAATCTCTTT  
GCAGTGAACGGCATTCTCTTCAATCATGAGAGTCCCAGAAGAGGAGCTAATTTTCGTTACTCGAAAAATTAGCCGG  
TCAGTAGCTAAGATTTACCTTGGACAACCTGGAATGTTTCAGTTTGGGAAATCTGGATGCCAAACGAGATTGGGGC  
CATGCCAAGGACTATGTGGAGGCTATGTGGTTGATGTTGCAGAATGATGAGCCGGAGGACTTCGTTATAGCTACT  
GGGGAGGTCCATAGTGTCCGGGAATTTGTGAGAAATCATTCTTGCACATTGGAAAAACCATTGTGTGGGAAGGA  
AAGAATGAAATGAAGTGGGCAGATGTAAAGAGACCGGCAAAGTTCACGTGACTGTGGATCTCAAGTACTACCGG  
CCAAGTGAAGTGGACTTTCTGCAGGGCGACTGCACCAAAGCGAAACAGAAGCTGAACTGGAAGCCCCGGGTCGCT  
TTCGATGAGCTGGTGAGGGAGATGGTGCACGCCGACGTGGAGCTCATGAGGACAAACCCCAATGCCTGAGCAGCG  
CCTCGGAGCCCCGGCCCGCCCTCCGGCTACAATCCCCGCAGAGTCTCCGGTGCAGACGCGCTGCGGGGATGGGGAG  
CGGCGTGCCAATCTGCGGGTCCCCTGCGGCCCTGCTGCCGCTGCGCTGTCCGGCCGCAAGAGCGGGGCCGCC  
CGCCGAGGTTTGTAGCAGCCGGGATGTGACCCTCCAGGGTTTGGGTCGCTTTGCGTTTGTGGAAGCCTCCTCTGA  
ATGGCTTTGTGAAATCAAGATGTTTTAATCACATTCACCTTTACTTGAAATTATGTTGTTACACAACAAATTGTGG  
GGCCTTCAAATTGTTTTTC

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**FIGURE 2053**

MAHAPARCP SARGSGD GEMGKPRN VALITGITGQDGSYLA EFLLEKGYEVHGIVRRSSSFNTGRIEHLYKNPQAH  
IEGNMKLHYGDLTDSTCLVKI INEVKPT E IYNLGAQSHVKISFDLAEYTADV DGVGTLRLLD AVKTCGLINSVKF  
YQASTSELYGKVQEIPQKETTPFYPRSPYGA AKLYAYWIVVNFREAYNLFAVNGILFNHESPRRGANFVTRKISR  
SVAKIYLGQLECFSLGNLDAKRDWGHAKDYVEAMWMLQND EPEDFVIATGEVHSVREFVEKSFLHIGKTIVWEG  
KNENEVGRCKETGKVHVTVDLKY YRPTEVD FLQGDCTKAKQKLNWKPRVAFDELVREMVHADVELMRTNPNA

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**FIGURE 2054A**

CGCCGCGGCCCCGGTACCAACGGGTGGTCTCGCCGAGGGAGCTGTCTGCTCGCTCGTGGTCCCGGGACTGCAGTGGTG  
TGCGCTCTCGGCGCGTGGCGCTAGGCATGGCGATGGATCAAGTAAACGCGCTGTGCGAGCAGCTGGTGAAAGCGG  
TGACGGTCATGATGGACCCCACTCCACCCAGCGCTACCGGCTGGAAGCCCTCAAGTTTTGTGAGGAGTTTAAAG  
AAAAGTGTCTATCTGTGTCCCTGTGGCTTGAGGTTGGCTGAGAAAACACAAGTTGCCATCGTCAGACATTTTG  
GCCTTCAGATCCTGGAACACGTTGTCAAGTTTCGGTGGAAACGGCATGTCTCGATTGGAGAAGGTGTATCTGAAGA  
ACAGTGTCTATGGAGCTGATTGCAAAATGGAACATTGAACATTTTGGAAAGAGGAGAACCATATTAAAGATGCTCTGT  
CTCGAATTGTAGTGGAAATGATCAAGCGAGAGTGGCCACAGCATTGGCCTGACATGCTAATAGAATTGGACACTC  
TTTCCAAACAAGGGGAAACACAGACAGAATTGGTGATGTTTATCCTTTTTCGACTGGCAGAGGATGTAGTGACTT  
TTCAGACACTTCCCCCTCAAAGAAGAAGGGACATCCAGCAAACATTAACCCAGAACATGGAAGGATCTTCAGTT  
TTCTGCTTAACACACTTCAAGAAAATGTAAACAAGTATCAGCAAGTGAAGACAGATACTTCTCAGGAGTCAAAGG  
CGAAGCAAACCTGTGAGTAGGAGTTGCAGCACTGAATACTCTAGCAGGCTATATTGACTGGGTGTCTATGAGTC  
ACATCACTGCTGAAAACCTGTAAACTCCTGGAGATACTGTGTTTGTCTGTTGAATGAACAGGAACCTTCAGTTGGGAG  
CCGCTGAGTGTCTTCTCATTGCAGTCAGCAGAAAAGGCAAGTTGGAAGACCGGAAGCCCTTGATGGTCTTATTTG  
GAGATGTTGCCATGCATTATATACTCTCCGCCGACAGACTGCTGATGGAGGAGGTTTGGTAGAAAAACACTACG  
TCTTTCTGAAGAGGCTCTGTGAGGTGTTGTGTGCGCTGGGCAATCAGCTGTGTGCATTGCTGGGTGCAGATTCTG  
ATGTAGAAACACCATCAAACCTTTGGAATAACCTGGAATCTTTTCTTGCTTTTACAACCCATCCAAGTCAGTTT  
TACGCTCTTCAACTCAGATGACTTGGGGAGCCCTCTTCAGGCATGAAATCCTGTCCCGTGATCCTTTGCTATTAG  
CAATAATACCAAATATCTTCGTGCTTCCATGACTAACTTGGTCAAGATGGGCTTTCCTTCTAAACAGACAGCC  
CTAGCTGTGAATATTCTCGGTTTGATTTTGATAGCGATGAGGACTTCAATGCTTTCCTTCAACTCCTCCCGAGCAC  
AACAAGGAGAGGTGATGAGGTTGGCATGTGCTTTGGATCCCAAACTAGCTTCCAGATGGCTGGGGAGTGGCTAA  
AGTATCAACTATCAACTTTTCTTGATGCTGGTTCTGTGAATTTCTGTTCTGCAGTTGGAACCTGGAGAAGGAAGCC  
TCTGTTCCGTCTTCTCACCTTCATTCTGTCAGTGGGAAGCCATGACTCTTTTTTTGGAAAGTGTTATCACCCAGA  
TGTTTCGAACACTAAATAGAGAAGAAATTCCTGTAAATGATGGAATAGAGCTATTGCAGATGGTTCTGAACTTTG  
ATACCAAGGATCCCTCATCTGTCTGCGTCTTACTAATGTCTCTGCACTCTTTCATTGTGTCACCTACAGAC  
CAGAGTTCTGCCCCAGGTCTTCTCTAAGCTATTTTCATCTGTCACTTTTGAAACTGTTGAAGAAAGTAAGGCCC  
CCAGAACCCGGGCGAGTGAGGAATGTGAGGAGGCATGCTTGTTCCTCCATCATCAAGATGTGTCGTGACTACCCCC  
AGCTTGTGCTGCCCAATTTTGACATGCTTTATAACCATGTGAAGCAACTCCTCTCCAATGAGCTACTCCTGACAC  
AAATGGAGAAGTGTCCTCATGGAAGCCCTGGTTCTCATTAGCAACCAATTTAAGAACTACGAGCGTCAGAAGG  
TGTTCTAGAGGAGCTGATGGCACCAGTGGCCAGCATCTGGCTTTCTCAAGACATGCACAGAGTGTCTGTCAGATG  
TTGATGCTTTTATTGCGTATGTGGGTACAGATCAGAAGAGCTGTGACCCAGGCCTGGAGGATCCGTGTGGCTTAA  
ACCGTGACGAATGAGCTTTTGTGTATACAGCATTCTGGGTGTGGTGAAACGAACTTGCTGGCCCACTGACCTAG  
AAGAGGCCAAAGCTGGGGGATTTGTGGTGGGTTATACATCCAGTGGAAATCCAATCTTCCGTAACCCCTGCACAG  
AGCAGATTCTGAACTTCTTGACAATTTGCTTGGCCTTATAAGAACCACAATACATTATATGCACCAGAAATGC  
TAGCCAAAATGGCAGAGCCTTTCACCAAGGCTCTGGATATGCTTGACGCGGAAAAATCTGCTATATTAGGATTAC  
CTCAACCTCTCTTGGAACTCAATGACTCTCCTGTCTTCAAAACCGTCTTGGAAAGAAATGCAGCGTTTCTTCTCTA  
CCCTCTATGAAAACCTGTTTTCATATCCTAGGGAAGGCAGGCCCTTCCATGCAGCAAGACTTCTATACTGTGGAGG  
ACCTTGCTACCCAGCTTCTCAGCTCAGCCTTTGTCAACTTGAACAATATTCTTGACTACCGACTCAGACCCATGC  
TTCGGGTCTTTGTAAAGCCTCTGGTGCTCTTCTGTCCCCAGAGCACTATGAAGCCCTGGTATCCCCCATCCTCG  
GACCTCTTTTACCTACCTCCATATGAGGCTTTCTCAGAAATGGCAAGTTATCAACCAAAGGAGCCTGCTGTGTG  
GAGAAGATGAGGCTGCAGATGAAAACCCAGAGTCTCAAGAGATGCTGGAGGAGCAACTGGTGAGGATGTTAACCC  
GAGAAGTCATGGACCTAATCACGGTTTGTGTGTTTCAAAGAAGGGTGTGACCACAGTAGTGCTCCCCCAGCAG  
ATGGAGACGATGAAGAAATGATGGCCACAGAGGTCACCCCTCAGCTATGGCAGAGCTTACAGACCTGGGCAAAT  
GTCTGATGAAGCATGAGGATGTTTGTACAGCGCTATTAATTACAGCCTTCAATTCCCTGGCCTGGAAAGATACTC  
TGTCCTGCCAGAGGACAACCTCACAGCTCTGCTGGCCTCTCCTCAAACAAGTGTGTGACGGGACACTGCTCGCAG  
ATGCAGTTACGTGGCTTTTACCAGTGTGCTGAAAGGCTTACAGATGCACGGGCAGCAGCAGGGTGCATGGCTT  
CCCTGGTCCATCTGGCCTTCCAGATATACGAGGCCTGCGCCCCAGGTACCTGGAGATAAGAGCTGTAATGGAGC  
AAATCCCTGAAATACAGAAGGACTCACTGGACCAGTTTGAAGTCAAGCTTTTAAACCCCTCCCTGCAGAAAGTGG  
CTGACAAGCGCCGAAAGGACCAATTCAAACGCCTCATTGCTGGTTGCATTGGGAACCCCTGGGAGAGCAGTTCC

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**FIGURE 2054B**

GAAAAGAAGTTCACATTAAGAATCTTCCCTCACTTTTCAAAAAACAAAGCCAATGCTGGAGACGGAGGTGCTGG  
ACAATGATGGGGGTGGCCTGGCCACCATCTTTGAACCCTGAATCAAGCTTTTGGGCATCCTTCCTCGGCCTTTCT  
TGTCATCTCTTCTTTCCCTTTGTAGCCGATCTCTAGGCCCTTCTTGCACTGCCACCTCACTTTCCACCCTGTCA  
GCCTGGAAAGAGATCCAGGTCTGGAGCTGGAGAGAACAGGCCCTGTGCAGGACCAGAAGTAATTATACTAAAGTA  
TCAAGAAAGGGAGTTAGGGCTTAAACTATTCTGTCTAGATGTCCCAGATAGTTCCCATTCTACTTGGAGATTG  
CTTTTCCAAGAAAAGCTAGAGCAGAGCAGCCCTTCTCCCACAAGCCCTCCCACCCCGTGCAGCCACATACCTGT  
ACAGAATGGTAACTAAGGGTGCTGTGCCCAACCCTGCGACTAGCAAGGCTCGCAGCAAGAGCACAGCCCTCACT  
ACTTGTGCCAGAGTTTCTCTTGGACCACTCCAACCTCCCCTGAGCCCTTTTGCTGCTGGGCTGGCAGGAACTTT  
CCCCACTCCCTAAGGGGCATGTCTGGGTAGGTGCTAAGTGCTGAAGAGAACTTGGTCAGTTCTCTCAACTTTGC  
TTTGGGCAAGAATCTGGTCACCTGATGGGATCCATGGTACAGGCTACTGCTAACTTGGCACAGTATCAAGTATA  
GTACCTCCAAGGACCAGGGCTGGGCAGTCTTTAGTGCTAACATCCCCTTTAGAGTTCACACATCTTGCCCTTCCA  
TGAATGACCCCTCAGTCTGGCCTCCCCAGCCTCAAGGTCCACTCAGGCACAAGAGCCACAGTACCCTAGATAGTG  
TCACATGACACCGTTGTCTATCCAAGGATAATACAGACCAACTAGGCTACATCTGTGATGAGCAGCTAGCAAAGCC  
GCTGGTCTTCTCCTAGGACTAAGTCCAGGTGCCTTCCACAATCTCATGGTCTTTCAGGTCCCTGGTTACTTTTCT  
CAAAGGCCATTTCCAAAAGAATACATGCCTTCACATCACAACCTGTACTGTGAGTCCATTCTAGAGGTCACTGAA  
AGGCCCTGTAAAGAGAGGACATGGATACGGGACCTGGCCCTGAGGTTATTACTGGCCGTAAGGCAGAGTTAATCC  
ATACAGAAACCAGTGTGTCCATGTGCTCTGCACAAAAACAGACCTGTTGTCCATCCAGTCCACTGACAAGAGGGT  
TTCCCCGAGAGCCGAAGTGGACTGAAGCTACAGTTTTTAGCTGGTGCAGGGCCACAGGCAGGGTCAGATTGAGAAG  
AAGCAAAGCTGGGGAAGCAGAAGTTGGGAGTCTTGTGTTGCTCCCTCTTCCTGTGTGGTGCTCTGGGTTTCTGTG  
GATCGTGAAGGCGATCTCAAGAGTGTTCCTCCAAACCTGATAGCTGCCTATTCCTGTCTGGTTGGGGCTGTGG  
AGGATGTAGTTGTATTTATTGCATTGTAATATTTTAAACATCCTGTGACTTCATGCTAGAAATTTTCTATTGTTT  
ATAGAACTTTTTGTAGAAACATTAACCTCTAAAGCACATCTGCATGTCAGTAAAAATCTCAGTTTCGTACAG

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**FIGURE 2055**

MAMDQVNALCEQLVKAVTVMMDPNSTQRYRLEALKFCEEKFCPCVPCGLRLAEKTQVAIVRHFGLQILEHV  
KFRWNGMSRLEKVYLKNSVMELIANGTLNILEEENHIKDALSRIVVEMIKREWPHWPDMLIELDTLKQGETQT  
ELVMFILLRLAEDVVTFTLPPQRRRDIQQTLTQNMERIFSFLNLTQENVNKYQQVKTDTSQESKAQANCRVGV  
AALNTLAGYIDWVSMHITAENCKLLEILCLLLNEQELQLGAAECLLIASVRKGKLEDKPLMVLFGLVAMHYIL  
SAAQTADGGGLVEKHYVFLKRLCQVLCALGNQLCALLGADSDVETPSNFGKYLESFLAFTTHPSQFLRSSTQMTW  
GALFRHEILSRDPLLLAIIPKYLRASMTNLVKMGFPSKTDSPSCEYSRFDSDSDDFNAFFNSSRAQQGEVMRLA  
CRLDPKTSFQMAGEWLKYQLSTFLDAGSVNSCSAVGTGEGSLCSVFSFVQWEAMTLFLESVITQMFRTLNREE  
IPVNDGIELLQMVNLNFDTKDPLILSCVLTNVSAFPFVTYRPEFLPQVFSKLFSSVTFETVEESKAPRTRAVRNV  
RRHACSSIIKMRDYPQLVLPNFDMLYNHVKQLLSNELLLTQMEKCALMEALVLISNQFKNYERQKVFLLEELMAP  
VASIWLSQDMHRVLSVDVAFIAYVGTQKSCDEPLEDPCGLNRARMSFCVYSILGVVKRTCWPTDLEEAKAGGFV  
VGYTSSGNPIFRNPCTEQILKLLDNLLALIRTHNTLYAPEMLAKMAEPFTKALDMLDAEKSAIILGLPQLLELND  
SPVFKTVLERMQRFFSTLYENCFHILGKAGPSMQQDFYTVEDLATQLLSSAFVNLNNIPDYRLRPMHLHVFKPLV  
LFCPPEHYEALVSPILGPLFTYLHMRLSQKWQVINQRSLLCGEDEAADENPESQEMLEEQLVRMLTREVMDLITV  
CCVSKKGADHSSAPPADGDDEEMMATEVTPSAMAELTDLGKCLMKHEDVCTALLITAFNSLAWKDTLSCQRTTSQ  
LCWPLLKQVLSGTLTLLADAVTWLFTSVLKGLQMHGQHDGCMASLVHLAFQIYEALRPRYLEIRAVMEQIPEIQKDS  
LDQFDCKLLNPSLQKVADKRRKDQFKRLIAGCIGKPLGEQFRKEVHIKNLPSLFKKTCPMLETEVLNDGGGLAT  
IFEP



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**FIGURE 2056**

AAAACACCAAATGGCGGATGACGCCGGTGCAGTGGGGGGGCCTGGAGGCCCTGGTGGCCCTGGGATGGGGAACCG  
CGGTGGCTTCCGCAGAGGTTTCGCCAGTGGCATCCGGGGCCGGGGTCGCAGCCGTGGACCGGGCCGGGGCTGAGG  
CCGCGGAGCTCGCGGAGGCAAGGCCAAAGATAAGGAGTGGATGCCCGTCACCAAGCTGGGCGCTTGGTCAAGGA  
CATGAAGATCAAGTCCCTGGAGGAGATCTATCTCTTCTCCCTGCCCATTAAAGGAATCAGAGATCATTGACTTTTT  
CCTGGGGGCCTCTCTCAAGGATGAGGTTTTGAAGATTATGCCAGTGCAGAAGCAGACCCGTGCTGGCCAGCGCAC  
CAGGTTCAAGGCGTTTGTGCTATCGGGGACTACAGTGGCCACGTCCGTCTGGGTGTTAAGTGCTCCAAGGAGGT  
GGCCACCGCCACCCGTGGGGCCATCATCCTGGCCAAGCTCTCCATTGTCCCCGTGCACAGAGGCTACTAGGGGAA  
CAAGATCGGCAAGCCCCACACCGTCCCCTGCAAGGTGACAGGCCGCCGTGGCTCTGIGCTGGTGCGCCTCATCCC  
TGCACCCAGGGGCACTGGCATTGTCTCCGCACCTGTGCCAAGAAGCTGCTCATGATGGCTGGTATCGATGACTG  
CTACACCTCAGCCCAGGGCTGCACTGCCACCCTGGGCAACTTCGCCAAGGCCACCTTTGATGCCATTTCTAAGAC  
CTACAGCTACCTGACCCCCGACCTCTGGAAGGAGACTGTATTTACCAAGTCTCCCTATCAGGAATTCAGTACCA  
CCTCGTCAAGACCCACACCAGAGTCTCTGTGCAGCAGACCCAGGCTCCAGCTGTGGCTACAACATAGGGTTTTTA  
TACAAGAAAAATAAAGTGAATTAAGCGTG

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**FIGURE 2057**

GGGCTGCGCTCTCCAGCTGTGGCTATGGCCCCAGCCCCGAGATGAGGAGGGAGAGAACTAGGGGGCCCGCAGGCCT  
GGGAATTTCCGTCCCCACCAAGTCCGGATGCTCACTCCAAAGTCTCAGCAGGCCCTGAGGGAGGGAGCTGTCA  
GCCAGGGAACCCGAGAACACCATCACCATGACAACCAGTCACCAGCCTCAGGACAGATACAAAGCTGTCTGGCT  
TATCTTCTTCATGCTGGGTCTGGGAACGCTGCTCCCGTGGAATTTTTTCATGACGGCCACTCAGTATTTACAAA  
CCGCCTGGACATGTCCAGAAATGTGTCCTTGGTCACTGCTGAACTGAGCAAGGACGCCCAGGCGTCAGCCGCCCC  
TGCAGCACCTTGCTGAGCGGAACCTCTCTCAGTGCCATCTTCAACAATGTCATGACCCTATGTGCCATGCTGCC  
CCTGCTGTTATTACCTACCTCAACTCCTTCCTGCATCAGAGGATCCCCAGTCCGTACGGATCCTGGGCAGCCT  
GGTGGCCATCCTGCTGGTGTCTTCTGATCACTGCCATCCTGGTGAAGGTGCAGCTGGATGCTCTGCCCTTCTTTGT  
CATCACCATGATCAAGATCGTGCTCATTAATTCATTTGGTGCCATCCTGCAGGGCAGCCTGTTTGGTCTGGCTGG  
CCTTCTGCCTGCCAGCTACACGGCCCCCATCATGAGTGGCCAGGGCCTAGCAGGCTTCTTTGCCCTCCGTGGCCAT  
GATCTGCGCTATTGCCAGTGGCTCGGAGCTATCAGAAAGTGCCTTCGGCTACTTTATCACAGCCTGTGCTGTTAT  
CATTTTGACCATCATCTGTTACCTGGGCCTGCCCCGCTGGAATTCTACCGCTACTACCAGCAGCTCAAGCTTGA  
AGGACCCGGGGAGCAGGAGACCAAGTTGGACCTCATTAGCAAAGGAGAGGAGCCAAGAGCAGGCAAAGAGGAATC  
TGGAGTTTCAGTCTCCAACCTCTCAGCCCACCAATGAAAGCCACTCTATCAAAGCCATCCTGAAAAATATCTCAGT  
CCTGGCTTTCTCTGTCTGCTTCACTATCACCATTGGGATGTTTCCAGCCGTGACTGTTGAGGTCAAGTC  
CAGCATCGCAGGCAGCAGCACCTGGGAACGTTACTTCATTCTGTGCTGTTTCTTGACTTTCAATATCTTTGA  
CTGGTTGGGCGGAGCCTCACAGCTGTATTATGCTGGCCTGGGAAGGACAGCCGCTGGCTGCCAAGCCTGGTGCT  
GGCCCGGCTGGTGTGTTGTGCCACTGCTGCTGTGCAACATTAAGCCCCGCGCTACCTGACTGTGGTCTTCGA  
GCACGATGCCTGGTTTCATCTTCTTCATGGCTGCCTTTGCCTTCTCCAACGGCTACCTCGCCAGCCTCTGCATGTG  
CTTCGGGCCCCAAGAAAGTGAACACAGCTGAAGCAAAAACCGCAGGAGCCATCATGGCCTCCTTCTGTGCTGGG  
TCTGGCACTGGGGGCTGTTTTCTCCTTCTGTTCCGGGCAATTGTGTGACAAAGGATGGACAGAAGGACTGCCTG  
CCTCCCTCCCTGTCTGCCTCCTGCCCTTCTTCTGCCAGGGGTGATCTTGAGTGGTCTGGCGGTTTTTTCTTCT  
AACTGACTTCTGCTTTCCACGGCGTGTGCTGGGCCCCGATCTCCAGGCCCTGGGGAGGGAGCCTCTGGACGGACA  
GTGGGGACATTGTGGGTTTGGGGCTCAGAGTCGAGGGACGGGGTGTAGCCTCGGCATTTGCTTGAGTTTCTCCAC  
TCTTGGCTCTGACTGATCCCTGCTTGTGCAAGGCCAGTGGAGGCTCTTGGGCTTGGAGAACACGTGTGTCTCTGTG  
TATGTGTCTGTGTGTCTGCGTCCGTGTCTGTGCACTGTCTGCCTGTCTGCGGTGGGCTAGGAGCTGGGTCTGAC  
CGTTGTATGTTTTGACCTGATATACTCCATTCTCCCCCTGCGCCTCCTCCTGTGTCTCTCCATGTCCCCCTCC  
CAACTCCCCATGCCAGTTCTTACCCATCATGCACCTGTACAGTTGCCACGTTACTGCCTTTTTTAAAAATATA  
TTTGACAGAAACCAGGTGCCTTCAGAGGCTCTCTGATTTAAATAAACCTTTCTTGTTTTTTT

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**FIGURE 2058**

GCGCGGCACTTCCGCTGGCCGCTGGCTCGCTGGCCGCTCCTGGAGGCGGCGGGAGCGCAGGGGGCGCGCGGC  
CCGGGGACTCGCATTTCCCGGTTCCCCCTCCACCCACGCGGCCTGGACCATGGACGCCAGATGGTGGGCAGTGG  
TGGTGCTGGCTGCGTTCCCTCCCTAGGGGCAGGTGGGGAGACTCCCGAAGCCCCCTCCGGAGTCATGGACCCAGC  
TATGGTTCTTCCGATTTGTGGTGAATGCTGCTGGCTATGCCAGCTTTATGGTACCTGGCTACCTCATGGTGCAGT  
ACTTCAGGCGGAAGAACTACCTGGAGACCGGTAGGGGCCTCTGCTTTCCCTGGTGAAAGCTTGTGTGTTTGGCA  
ATGAGCCCAAGGCCTCTGATGAGGTTCCCTGGCGCCCCGAACAGAGGCGGCAGAGACCACCCCGATGTGGCAGG  
CCCTGAAGCTGCTCTTCTGTGCCACAGGGCTCCAGGTGTCTTATCTGACTTGGGGTGTGCTGCAGGAAAGAGTGA  
TGACCCGCAGCTATGGGGCCACAGCCACATCACCGGGTGAGCGCTTTACGGACTCGCAGTTCTTGGTGTAAATGA  
ACCGAGTGCTGGCACTGATTGTGGCTGGCCTCTCCTGTGTCTCTGCAAGCAGCCCCGGCATGGGGCACCCATGT  
ACCGGTACTCCTTTGCCAGCCTGTCCAATGTGCTTAGCAGCTGGTGCCAATACGAAGCTCTTAAGTTCGTACAGCT  
TCCCCACCCAGGTGCTGGCCAAGGCCTCTAAGGTGATCCCTGTATGCTGATGGGAAAGCTTGTGTCTCGGCGCA  
GCTACGAACACTGGGAGTACCTGACAGCCACCCTCATCTCCATTGGGGTCAGCATGTTTCTGCTATCCAGCGGAC  
CAGAGCCCCGCAGCTCCCCAGCCACCACACTCTCAGGCCTCATCTTACTGGCAGGTTATATTGCTTTTGACAGCT  
TCACCTCAAACCTGGCAGGATGCCCTGTTTGCCCTATAAGATGTATCGGTGCAGATGATGTTTGGGGTCAATTTCT  
TCTCCTGCCTCTTACAGTGGGCTCACTGCTAGAACAGGGGGCCCTACTGGAGGGAACCCGCTTCATGGGGCGAC  
ACAGTGAGTTTGTGCCCCATGCCCTGCTACTCTCCATCTGCTCCGCATGTGGCCAGCTCTTCATCTTTACACCA  
TTGGGCAGTTTGGGGCTGCCGTCTTACCATCATCATGACCCTCCGCCAGGCCTTTGCCATCCTTCTTTCCTGCC  
TTCTCTATGGCCACACTGTCACTGTGGTGGGAGGGCTGGGGGTGGCTGTGGTCTTTGCTGCCCTCCTGCTCAGAG  
TCTACGCGCGGGGCCGTCTAAAGCAACGGGGAAAGAAGGCTGTGCCTGTTGAGTCTCCTGTGCAGAAGGTTTGAG  
GGTGGAAGGGCCTGAGGGGTGAAGTGAAATAGGACCCTCCCACCATCCCCTTCTGCTGTAACCTCTGAGGGAGC  
TGGCTGAAAGGGCAAAATGCAGGTGTTTTCTCAGTATCACAGACCAGCTCTGCAGCAGGGGATTGGGGAGCCCAG  
GAGGCAGCCTTCCCTTTTGCCCTTAAGTCACCCATCTTCCAGTAAGCAGTTTATTCTGAGCCCCGGGGGTAGACAG  
TCCTCAGTGAGGGGTTTTGGGGAGTTTGGGGTCAAGAGAGCATAGGTAGGTTCCACAGTTACTCTTCCCACAAGT  
TCCCTTAAGTCTTGCCCTAGCTGTGCTCTGCCACCTTCCAGACTCACTCCCCTCTGCAAATACCTGCATTTCTTA  
CCCTGGTGAGAAAAGCACAAAGCGGTGTAGGCTCCAATGCTGCTTTCCAGGAGGGTGAAGATGGTGTGCTGTGA  
GGAAAGGGGATGCAGAGCCCTGCCCAGCACCAACCTCCTATGCTCCTGGATCCCTAGGCTCTGTTCCATGAGC  
CTGTTGCAGGTTTTGGTACTTTAGAAATGTAACTTTTGCTCTTATAATTTTATTTTATTAAATTAAATTACTGC

A

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**FIGURE 2059**

CAGAATCGGTAGACATTGCGAACCAGGTTATGAAGTGCAAGGCTGCAGTTGCTTGGGAGGCTGGAAAGCCTCTCT  
CCATAGAGGAGATAGAGGTGGCACCCTCAAAGGCTCATGAAGTTCGAATCAAGATCATTGCCACTGCGGTTTGCC  
ACACCGACGCCTATACCCTGAGGGGAGCTGATCCTGAGGGTTGTTTTCCAGTGATCTTGGGACATGAAGGTGCCG  
GAATTGAGGAAAGTGTGGCGAGGGAGTTACTAAGCTGAAGGCGGGTGACACTGTCATCCCACCTTTACATCCCAC  
AGTGTGGAGAATGCAAAATTTGTCTATATCCTAAACTAACCTTTGCCAGAAGATAAGAGTCACTCAAGGGAAAG  
GATTAATGCCAGATGGTACCAGCAGATTTACTTGCAAGGAAAGACAATTTTGCCTTACATGGGAACCAGCACAT  
TTTCTGAATACACAGTTGTAGCTGATATCTCTGTTGCTAAATAGATCCTTTAGCACCTTTGGATAAACTCTGCC  
TTCTAGGTTGTGGCATTTCAGCTGGTGATGGTGCTGCTGTGAACACTGCCAAGGTGGAACCTGGCTCTGTTTGTG  
CCGTCTTTGGTCTGGGAGGAGTTGGATTGGCAGTTATCAAGGGCTGTAAAGTGGCTGGTGCATCCCGGATCATTG  
GTGTGGACATCAATAAAGATAAATTTGCAAGGGCCAAAGAGTTTGGAGCCACTGAATGTATTAACCCTCAGGGTT  
TTAGTAAACCCATCCAGGAAGGGCTCATTGAGACGACTGATGGAGGAGTGGACTATTCCTTTGAATGTATTGGTA  
ATGTGAAGGTCATGAGAGCAGCACTTGAGGCTTATCACAAGGGCTGGGGAGTCAGCGTGGTGGTGGAGTAGCTG  
CTTCAGGTGAAGAAATTGCCACTCGTCCATTCCAGCTGGTAACAGGTGCGACATGGAAAGGAACCTGCCTTTGGAG  
GATGGAAGAGTGTAGAAAGTGTCCCAAAGTTGGTGTCTGAATATATGTCCAAAAAATAAAAGTTGATGAATTTG  
TGACTCACAATCTGTCTTTTGGTGAATTAACAAAGCCTTTCAACTGATGCATTCTGGAAAGAGCATTGCAACTG  
TTGTAAAGATTTAATTCAAAGAGAAAAATAATGTCCAACCTGTCGTGATGTGATGGGAGCAGCTTAACAGGCAG  
GGAGAAGCGCTCCAAACTCACAGCCTCGTAGAGCTTCGCAGCTACCCAGAGAATAGTGTTATGAGTGTAAATTC  
ATGAATCTCTATAATCAACGACAAGGATAATTCAGTCATGGACCTGTTTTCTGGACGCTCCTCCACATAAATAAT  
TGCTAGCTTATTAAGGAATATTTTAACATAATAAAAGTAATTTCTACATTTGTGTAGAAATTGCTTTGTTTTAT  
GCTGTAATCATTGTGATGGTTTGTCTGCCATTATCTTCATTCTGTAAGGGAAATGTAAAGGAAGCAGGGCAGTG  
GTGGGTGCTGAAACCTCAGAAACATTCGTTGAAGTTTTAAGGGTCTCAGTCCCGTTGATTGAAGAACAGATCCT  
AGCCATCAGTGACAAAGTTAATCAGGAGCCAAGTCTGCTTCTGTGATATTATCTTGAAGGGAGGTACTGTGCCTT  
GTTCTGTCCTGTACCCCAAATTCCTAGTATGGCATCTGCCCTCAGGGGACACTAAATGTATTATTGAAACAGC  
ATTCTGGACTTAAATAGGTGTATGTGTGTGTTGGTTGTGGCTGTACTATTTCTAGTATAGTGAATTACATACTGA  
ATATCCAAGTTCTCAGCACCTACTTTTGTCAAATCTTAACATTTTGCCACTTCCACATCACATTGCCATTCCTCC  
CCTCCAGAGGTAACAATTATCCAAAATTTGATGTTTGTCTTCTGTTGTTGTACTTTCACTGTGTATAACCT  
AAACCATCTACTCTTTAGTACTGTTTTATATATTTTTAAGCCTTATACTTGCTCATTCTACAGCTTTTCTTTTTT  
TCACTCATTATTGTATAATTATATGTGAAGCTTTCATTCAATATTTTAGTACTGTGTAGCAGTATTCAATTACG  
CGAACTATCTTAATTCATCTGTTCTCCAGTTGAAGGCATGAAGTTGTTGCCAGTTTCTGTATTACAACACTGTAG  
TGGAACATTCTTCTGCATTGGGCTCACTACATTAGTTACTTAAGATGTGTATCACAGAATAAACACATTTAGCCT  
TATAGACATTGCCAAATTTATCTTCAAAGTAAATGTAGTTTTTGTGAATTACGTGAGTGTAGAATGGTGTTTTA  
TTATGAGTTTAGTTTGCATTTTCCACAA

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**FIGURE 2060**

ATGATCAAGGGTGTTACACTAGGCTTCCATTACAAGATGAGATCTGTGTATGCTCACTTCCCCATCAACGTCGTT  
ATCCAGGAGAATGGGTCTCTTGTTGAAATCCGAAATTTCTTGGGTAAAAAATACATCCGCAGGGTTTGGATGAGA  
GCAGGTGTTGTTTGTTCAGTATCTCAAGCCCAGAAAGATGAATTAATCCTTGAAGGAAATGACATTGAGCTTGTT  
TCAAATTCAGCGGCTTTGATTCAACAAGCCACAACAGTTAAAAAGAAGGATATCAGGGAATTTTGGATGGTATC  
TATGTCTCTGAAAAAGGAACTGGTCAGCAGGCTGATGAATTAA

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**FIGURE 2061**

MIKGVTLGFHYKMRSVYAHFPINVVIQENGLVEIRNFLGKKYIRRVWMRAGVVCSVSQAQKDELILEGNDIELV  
SNSAALIQQATTVKKKDIREFLDGIYVSEKGTGQQADE

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**FIGURE 2062**

GCTGTCGGTCCACGCCGCCGTCGCGCTGCCCCGCCGCTCGGCGTCGGCCGCCGCCATGGGAGTGCACGTGGAAA  
CCATCTCCCCAGGAGACTGGCGCACCTTCCCGAAGCGCAGCCAGACCTGCGTGATGCACTACACCGGGATGCTTG  
AAGATGGAAAGAAATTTGATTCTCCCGGGACAGAAACAAGCCCTTTAAGTTTATGCTAGGCAAGCAGGAGGTGA  
TCCGAGGCTGGGAAGAAGGGGTTGTCCAGATGAGTGTGGGTCAGAGAGCCAAACTGACTATATCTCCAGATTATG  
CCTATGGTGCCACTGGGCACCCAGGCATCATCCCACCACATGCCACTCTCGTCTTCGATGTGGAGCTTCTAAAAC  
TGGAATTGACAGGAATGGCCTCCTCCCTTAGCTCCCTGTTCTTGGATCTGCCATGGAGGGATCTGGTGCCTCCAGA  
CGTGTGCACATAAATCCATATGGAGCTTTTCCTGATGTTCCACTCCACTTTGTATAGACATCTGCCCCAACTGAA  
TTATTCTCCAAGTTGAGAGATGTCCTTGGGTAAATTAAAAGCCCTACCTAAAACTGAGGTGGGGATGGGGAGAG  
GCTTTGCC

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**FIGURE 2063**

MGVHVETISPGDWRTFPKRSQTCVMHYTGMLEDGKKFDSSDRNKPFKFMLGKQEVIRGWEEGVVQMSVGQRAKL  
TISPDYAYGATGHPIIPPHATLVFDVELLKLE



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**FIGURE 2064**

CGCCTTGGCCATTTGCCAGCCACACAACCCAGGACCTCCAATGGGGACGCCCCTGAGGATCCTAGTGGTTGCTC  
TTTTCTTGTCTCTTTCTTTCCCCCAGTCTTTCTTGTCTATCATGGGCAATTTCCCGCCTTCCATCCCTCTT  
TCTTCTGTCTGGCTTGTGTCTCAGAAACCTCAAACCTCTTCACCTTGACCCCAATCTAAAGGCTAAACGTCTAA  
TTTTTTTCTGTAACACGTCTTGGCCCCAGTATAAATTAGAAAATGGCGCTCAGTGGCCAGAAAACAGCACTTCCA  
ATTTCTCTATTTTGTGGGACTTAGACAACCTTCTATGGAAAATGGGCAATGGGTCTGAGGTACCCTACTTCCAG  
GCATTTTTTACATACGATCTCTCCCTAGCCTATGCTTCCAATGTAATCCATCCCCAATTTCTCTTATTTCCCTTC  
TGTCTACCCCTCCTTCTTCCACTGGCGATGCTGACTCCTCTTTGTCTGTTGACCCCTCCGATCTTTCTCCCCAC  
CACCTATCCGAACCTGCTTCTAATTCTCCCCCAGAACCTATTTCTACCCACAATCCACCCTCTTATGCCCCCTCCC  
ATTACCACCCTTCCCTCACATCCTCTATGGCTTACAGTTTGGGCCTGCGACCAACCCCCAGGCCCTGCCTAGCAA  
TTTCCCCTCGGAGAGGTGGCAGGAACCAAAGGAATAGTTCGGGTTTCAAGTCCCTTTCTCCCTGTTTCGACCTTTCC  
CAAATTAGTGAACATCTAGGCTCTTTCCCATCTGACCCACCAAAATATATACGAGAATTCCAATACTTAACCCAG  
TCCTATAATCTTACTTGGGAATGACTTAAATGTCATCCTTACCTCTACCCTCGCTCCTGAGGAGTGAGAGTGGGT  
TGGATCCTAGCTCAATCTTAGGCTGATAACCGCCGGTGGCGTAAGCCTGGCCTCCAGTAAGGTGCTAGGGCAGTA  
CCCTGTGAAGACCCCGGATGGACTTACCAGGCCCTGGGACCCATGCATAGCCAGGCGGGACTACATGATCTCTTG  
CCTAGTTAAAGGGCTTCAGAAGGCTGCATATAAAGCCGTCAATTATGACAACTAAAAACAAAAACAAAAACAA  
AAAAAACCACTCAGAACAAAGATAAAAAATCCAGCTCAGTTTATGGCCTGTCTACCTGCCACCCTCAGGCGATATA  
CAGCACTAGACCCTGAAGGGATAGAAGGCCGCTTATTCTTAACATGCATTTTATTACCCAGTCAGTTTCTGACA  
GTAGAAAGAACTTCAAAAATTAGAGTCTGGCTCTCAGATCCCAACAGGAATTAATCAACCTCGCCTTCAAGG  
TGTTCAATAATAGGGAAGAGACTGCCCCGGCGACAGCGCATTTCAGAACTACAGATGCTTGCCTCCGCCATAAGAC  
AAACCCCACTGCACTGCCTACCTGCAAGAACTTCAAGGCATCTAAACGCAACATCCAACAGCCCCCTCTGGGACT  
TTGCTTCAAGCGATGAAAACCTGGCCACTGGGCAAGGAATGCCTGCAGCCTGGGATTCTCTAAGCCATGCCCC  
GCCTGTGCGTCCCTCACTGGAAGTCTGACTGCCCCGACTCTCATCGCCACTTCCGGAGCTCCTGGAGCTCAAACCC  
AAAGCTCCCCACCGACTCCTTCCAGATCTCCTCGGCTTGGCGGCTGAAGACTGACGCTGCCCCGAACGTCTCGGA  
GGCCCCTTAGACAATCGCGGATGCCGAGCTTCGGGTAACCTTAGGGTGGAGGCATAAAAAGACAGGAATGTAAG  
GTCCTCTGAGCAGGCGGCGCCATGGTCAAGCCATCGTGACCCCTGTGACTCACACGTACACATCCAGAAGGTCTC  
CTGGAGCCAGAAAGTCTGGGACGACAGGAAAACCACAAAAGAAGAAAAA

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**FIGURE 2065**

GGGCCTGGACGCTTTGGCAACCGCTACTCCCGGGGTGCTTTTTCTGCAGGGACGAAGTGCCACCTATGCTAGTG  
GCGGGTCTGGAAGCCTAGAGGGGAACCAGGCTGCAGAGCCGGGCCAAGGGATTAGCGGCGGGCGGGCGGGCATGGC  
CTGGACTGCGCGGGACCGCGGGGCCCTGGGGCTGCTGCTGTTGGGGCTCTGCTTGTGCGCGGCTCAAAGAGGTCC  
CCCGGGTGAGCAGGGTCTCCCGGGCCTCCGGGCCCCCTGGAGTTCCAGGCATCGATGGCATCGACGGTGACCG  
AGGTCTTAAGGGCCCCCGGGCCCCCGGGTCTGCAGGTGAACCGGGAAAGCCAGGAGCTCCAGGCAAGCCTGG  
CACACCTGGCGCTGATGGATTAACAGGACCTGATGGATCCCCTGGCTCCATTGGGTCAAAGGGACAAAAGGAGA  
ACCTGGTGTGCCTGGATCGCGTGGATTTCAGGCCGTGGTATTCTGGACCCCTGGTCTCTCTGGGACAGCAGG  
ACTCCCTGGAGAGCTTGGCCGTGTAGGACCTGTTGGTGACCCTGGGAGAAGAGGACCACCTGGCCCCCTGGCCC  
CCCAGGACCCAGAGGAACAATTGGCTTTTCATGATGGAGATCCATTGTGTCCCAATGCCTGTCCACCAGGTGCTC  
AGGATATCCAGGCCTACCAGGCATGAGGGGTCTATAAAGGGGCTAAAGGAGAAATTGGTGAACCAGGAAGACAAGG  
ACACAAGGGTGAAGAAGGTGACCAGGGAGAACTCGGAGAAGTTGGAGCTCAAGGACCTCCAGGAGCCCAGGGTTT  
GCGAGGCATCACCGGCATAGTTGGGGACAAAGGGGAAAAGGTGCTCGGGGCTTAGATGGTGAACCTGGGCCTCA  
GGGTCTTCTGGTGCACCTGGTGATCAAGGACAGCGAGGACCTCCAGGAGAAGCAGGTCCCAAAGGAGATAGAGG  
GGCTGAAGGTGCTAGAGGAATTCCTGGTCTCCCTGGGCCCAAAGGAGACACGGGTTTGCCAGGTGTGGATGGCCG  
TGATGGGATCCCTGGAATGCCTGGAACAAAGGGTGAACCAGGAAAACCTGGGCCTCCTGGTGATGCAGGATTGCA  
GGGGTTACCAGGTGTACCTGGAATTCCTGGTGAAAGGGTGTGTGCTGGTGAAGGGTAGCACAGGTGCTCCAGG  
GAAGCCTGGTCAGATGGGAAATTCAGGCAAACCGGGCCAACAGGGGCCTCCAGGAGAGGTGGGACCCCGAGGACC  
CCAGGGGCTTCTGGCAGTAGAGGAGAATTAGGACCAGTGGGATCCCCAGGCCTACCAGGTAAACTGGGTCTCT  
GGGTAGCCCTGGCCTCCCTGGCTTGCTGGGCCCCCTGGACTTCTTGAATGAAAGGTGACAGGGGTGTAGTCGG  
TGAACCGGGTCCAAAGGGTGAACAGGGTGCCTCTGGTGAAGAAGGTGAAGCAGGAGAAAGGGGGGAACCTGGAGA  
TATAGGATTACCTGGCCCCAAAGGGATCTGCAGGTAATCCTGGGGAACCTGGCTTGAGAGGGCCTGAGGGAAGTCG  
GGGGCTTCTGGAGTGGAAGGACCAAGAGGACCACCTGGACCCCGGGGTGTGCAGGGAGAACAGGGTGCCACCGG  
CCTGCCTGGTGTCCAGGGCCCTCCGGGTAGAGCACCGACAGATCAGCACATTAAGCAGGTTTGCATGAGAGTCAT  
ACAAGAACATTTTGCTGAGATGGCTGCCAGTCTTAAGCGTCCAGACTCAGGTGCCACTGGGCTTCTGGAAGGCC  
TGGCCCTCCTGGTCCCCCGGCCCTCCTGGAGAGAATGGTTTCCAGGCCAGATGGGAATTCGTGGCCTTCCGGG  
CATTAAAGGGCCCCCTGGTGTCTTGGTTTGAGGGGACCTAAAGGTGACTTGGGAGAAAAGGGGGAGCGTGGCCC  
TCCAGGAAGAGGTCCCAACGGTTTGCTGGAGCTATAGGTCTCCAGGTGACCCAGGCCCTGCCAGCTATGGCAG  
AAATGGCCGAGACGGTGAGCGAGGCCCCCCAGGGGTGGCAGGAATTCCTGGAGTGCCTGGACCCCGGGACCTCC  
TGGGCTTCCCGTTTTCTGTGAGCCAGCCTCCTGCACCATGCAGGCTGGTCAGCGAGCATTTAACAAAGGGCCTGA  
CCCTTGAAAGGCTTACTGCTGCATGGCTGTCTGCATGAACCACGCCTGGTGAAGGAGCCTGGGTGAGAAACACCA  
TCCAAAGCTGGGGCAAAGATGATTACCTTCAGCATGATTACAATGTATTACCTTCAGTATGATTACAGAAGTCCT  
ACTTGACAATCACATATAGAAGAACGGTGCTATTTCAGTAAGTTCTCTTTCCCTTTGGAGGGAAGACAGCAG  
AGTCATCAGTTAAAAAAGAAAAAAGAAAAACCAACACCTCCCTTGAATAAATTTATACTCCTGTTCACAGGATCT  
TGAGCTTTAGTGTGCTATACCTATGTGTCTTATCGTGGGCCACTGTGCCAATAAACAACAACTGTTTGGTTT  
ACCTC

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**FIGURE 2066**

GGCCGCGCCCTGCAGATTGTCTCTTGTGCGTAAGTTTTTTTTGACCGTCACCTCGTGTCTCAGCTTCAAAGTCAGATA  
GATTTTTCTCCCAGCATGTTCTACTTCCGAGGCTGTGGCCGTTGGGTGCGCGTTTCCTTCACCAAGCAGCAATTT  
CCGTTGGCACGGTTGAGCAGTGACAGCGCGGCCCGGACTCCGCACTTCGACGTGATAGTCATTGGTGGAGGA  
CATGCCGGGACTGAGGCAGCCACCGCCGCGCTCGGTGCGGCTCTCGGACTCTGCTCCTCACTCACCGCGTGGAC  
ACGATCGGTGAGATGTATGTAATCCTTCTTTGGTGGCATCGGAAAGGGACATTTAATGAGGGAAGTAGATGCC  
TTGGATGGCCTGTGTTCTCGCATCTGTGACCAGTCTGGTGTACATTATAAAGTATTAAACCGGCGTAAGGGACCA  
GCTGTGTGGGTCTGAGAGCTCAGATTGATAGGAACTCTACAAACAGAACATGCAGAAAGAAATCTTGAATACA  
CCACTGCTTACTGTTACAGAGGGAGCTGTAGAAGATCTTATTCTTACAGAACAGAGCCTGAACACACTGGGAAA  
TGCCGTGTCTCAGTGGGGTTGTTTTGGTGGATGGAAGCACAGTATATGCAGAGAGTGTGATTCTGACTACTGGGACA  
TTTCTGAGAGGCATGATTGTAATTGGATTGGAGACGCATCCAGCAGGACGTTTAGGGGATCAGCCTTCTATAGGA  
TTGGCTCAGACACTGGAGAAGTTAGGGTTTTGTGGTGGGAAGGTTGAAGACTGGGACTCCACCCCGAATTGCCAAA  
GAGTCCATTAAATTCAGTATTCTAAACAAGCATATACCGGACAATCCATCCATACCATTGAGCTTTACCAATGAG  
ACAGTATGGATTAAGCCAGAAGATCAGCTGCCATGTTACTTGAAGTACACCAACCTAGAGTGGATGAGATTGTC  
CTTAAGAACCTTACCTTAATAGTCATGTTAAAGAAACGACAAGAGGACCTCGATACTGTCCCTCCATTGAATCA  
AAAGTTTTGCGTTTTCCAAACCGTCTACATCAGGTTTGGTTGGAACCTGAAGGAATGGATTCTGACCTTATCTAC  
CCACAGGGGTTATCTATGACGCTACCAGCTGAGTTACAAGAGAAAATGATCAGATGCATCAGAGGCTTGGAGAAA  
GCTAAAGTGATTACGCCAGACGGAGTTTTGCTCTTGTGCCCAGGATGGAGTGCAATGGTGGCATCTCGGCTCAC  
CACAACCTCCCCCTGCCAGGCTACGGTGTTCAGTATGATTACTTAGATCCCCGTGAGATCACCCCTTCTTGGAG  
ACTCATTTGGTTCAACGACTCTTCTTGTGCTGGACAGATCAATGGCACCCTGGTTATGAGGAAGCTGCAGCTCAA  
GGTGTGATAGCCGGAATCAACGCCAGTCTTCGGGTGAGTCGCAAGCCTCCCTTTGTGGTTAGCCGAACAGAAGGT  
TACATAGGAGTCTTGATTGATGACCTCACTACTCTGGGCACCAGTGAACCATAACCGCATGTTTACCAGCCGAGTA  
GAGTTCCGTTTGTCACTGCGCCCTGATAATGCTGACAGCCGGCTCACACTGCGAGGGTATAAAGACGCTGGCTGT  
GTGTCCCAACAACGATATGAAAGAGCTTGTGGATGAAGTCTTCTTTAGAAGAAGGCATTTCTGTGTTGAAATCT  
ATTGAGTTTTTTGAGCTCTAAATGGAAAAAATTAATCCCAGAGGCTTCTATAAGTACTAGTAGAAGTCTGCCTGTC  
AGAGCTCTCGATGTTCTGAAGTATGAGGAAGTTGACATGGATTCTTAGCCAAGGCTGTTCCAGAGCCCTTGAAG  
AAGTATACTAAATGTAGAGAGCTGGCTGAAAGACTGAAAATAGAAGCCACTTATGAATCAGTGTGTTCCATCAA  
CTACAAGAAATAAAGGGAGTTCAGCAAGATGAAGCTCTCCAAGTCCAAAAGACCTAGATTATTTGACTATCAGG  
GATGTGTCTTTGTCCCATGAAGTTTCGAGAGAACTACATTTTAGTCGTCCACAGACGATCGGGGCTGCTAGTCGC  
ATACCCGGAGTAACACCTGCCGCCATCATCAATCTGCTGAGATTTGTGAAGACCACTCAACGAAGACAGTCGGCT  
ATGAATGAATCATCCAAGACTGATCAATACTTATGTGATGCAGACAGACTTCAAGAGAGAGAGTTATAGCTTTCA  
ATTCATAAAAGATTTTTAAAGAGCATATAAATAATTTGATCAATACAACAGTATAGATAAAAGAATTATTTAGCA  
CATGTTAAAATAGCTTTATTAGGTTACTATGGGTTTGCCATTAATTTCTGAGTGGGACAGAAATTATAATTGTGC  
TTTTTCGTGTATATGAAAAAACTAGTCGTAAACAATTTGTACTCTTTCTTTAAGGAGCTGTAATACAAATAACTT  
TGTGCAGTGTTCATCAAAGAGAGAGACAGTGAACCTAAAAGTGAACCTGGAATAAACTCAACATGCAGATTTGC  
CTACTCATAGGGACTTTGCCTATTAAGTCTACCAAATTAAGTCTTATCATTGAGCGTGTGTTGAGAGTTAATA  
ATCTTTTGCTTGGTTATACTAGGCTAGGAAGCAATATCAAAGCCCTTAAATTCTCAAGACTAAAGACTTGAGATT  
ATATAAAATTATCCAGAATCATTGAGCTAATACTATTGGAATATAGTATGTAGGGTGAAAGTTGACAGAAATCTG  
TACTTCTCAGGAAATCCTCACTGGTAATTGTTTTGAACATTAATGAAAGCCCTATAAAATAGAAAGATTGGAAA  
TCACCATTTGTTTCTATTATCCACAGTGTGGATGGATACTTATTTGGTGACCTAGTTATGGGAGAATTGAGTAAC  
GTTAGTTATTTTATATCATACCATAAAAAATATTTTC

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**FIGURE 2067**

MFYFRGCGRWVAVSFTKQQFPLARLSSDSAAPRTPHFDVIVIGGGHAGTEAATAAARCGSRTLLLTHRVDITIGQM  
SCNPSFGGIGKGHLMREVDALDGLCSRICDQSGVHYKVLNRRKGPAVWGLRAQIDRKLYKQNMQKEILNTPLLTV  
QEGAVEDLILTEPEPEHTGKCRVSGVVLVDGSTVYAESVILTGTFLRGMIVIGLETHPAGRLGDQPSIGLAQTL  
EKLGFVVGRLKTGTPPRIAKESINF SILNKHIPDNPSIPFSFTNETVWIKPEDQLPCYLTHTNPRVDEIVLKNLH  
LNSHVKETTRGPRYCPSIESKVLRFNRLHQVWLEPEGMDSDLIYPQGLSMTLPAELQEKMITCIRGLEKAKVIQ  
PDGVLLLLPRMECNGAISAHNLEPLPGYGVQYDYLDPRQITPSLETHLVQRLFFAGQINGTTGYEEAAAQGVIA  
INASLRVSRKPPFVVSRTGYIGVLIDDLTTLGTSEPYRMFTSRVEFRLSLRPDNADSRLTLRGYKDAGCVSQQR  
YERACWMKSSLEEGISVLKSIEFLSSKWKKLIPEASISTSRSLPVRALDVLKYEVDMDSLAKAVPEPLKKYTKC  
RELAERLKIEATYESVLFHQLEIKGVQQDEALQLPKDLDYLTIRDVSLSHEVREKLHFSRPQTIGAASRIPGVT  
PAAIINLLRFVKTQRRQSAMNESSKTDQYLCADRLQEREL

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**FIGURE 2068**

CTCATTTAAC TTTTTTAATGGGTCTCAAAATTCTGTGACAAATTTTGGTCAAGTTGTTTCCATTAAAAAGTACT  
GATTTTAAAAACTAATAACTTAAACTGCCACACGCAAAAAAGAAAACCAAAGTGGTCCACAAAACATTCTCCTT  
TCCTTCTGAAGGTTTTACGATGCATTGTTATCATTAAACAGTCTTTTACTACTAACTTAAATGGCCAATTGAAA  
CAAACAGTTCTGAGACCGTTCTTCCACCACTGATTAAGAGTGGGGTGGCAGGTATTAGGGATAATATTCATTTAG  
CCTTCTGAGCTTTCTGGGCAGACTTGGTGACCTTGCCAGCTCCAGCAGCCTTCTTGTCCACTGCTTTGATGACAC  
CCACCGCAACTGTCTGTCTCATATCACGAACAGCAAAGCGACCCAAAGGTGGATAGTCTGAGAAGCTCTCAACAC  
ACATGGGCTTGCCAGGAACCATATCAACAATGGCAGCATCACCAGACTTCAAGAATTTAGGGCCATCTTCCAGCT  
TTTTACCAGAACGGCGATCAATCTTTTCTTCAGCTCAGCAAACTTGCAATGCAATGTGAGCCGTGTGGCAATCCA  
ATACAGGGGCATAGCCGGCGCTTATTTGGCCTGGATGGTTTCAAGGATAATCACCTGAGCAGTGAAGCCAGCTGCTT  
CCATTGGTGGGTCAATTTTGTCTGTCACCAGCAACGTTGCCACGACGAACATCCTTGACAGACACATTCTTGACAT  
TGAAGCCACATTGTCCCAGGAAGAGCTTCACTCAAAGCTTCATGGTGCATTTGACAGATTTTACTTCCGTTG  
TAACGTTGACTGGAGCAAAGGTGACCACCATAACGGGTTTGAGAACACCAGTCTCCACTCGGCCAACAGGAACAG  
TACCAATACCACCAATTTTGTAGACATCCTGGAGAGGCAGGCGCAAGGGCTTGTGAGTTGGACGAGTTGGTGGTA  
GGATGCAGTCCAGAGCCTCAAGCAGCGTGGTTCCACTGGCATTGCCATCCTTACGGGTGACTTTCCATCCCTTGA  
ACCAAGGCATGTTAGCACTTGGCTCCAGCATGTTGTCACCATTCCAACCAGAAATTGGCACAAATGCTACTGTGT  
CGGGGTTGTAGCCAATTTTCTTAATGTAAGTGCTGACTTCCTTAACAATTTCTCATATCTCTTCTGGCTGTAGG  
GTGGCTCAGTGAATCCATTTTGTAAACACCGACAATTAGTTGTTTACACCCAGTGTGTAAGCCAGAAGGGCAT  
GCTCTCGGGTCTGCCATTCTTGGAGATACCAGCTTCAAATTCACCAACACCAGCAGCAACAATCAGGACAGCAC  
AGTCAACCTGAGATGTCCCTGTAATCATGTTTTTGATAAAGTCTCTGTGTCCTGGGGCATCAATGATAGTCACAT  
AGTACTTGCTGGTCTCAAATTTCCACAAGGAGATATCAATGGTGATACCAGTTTACGCTCAGCTTTCAGTTTAT  
CCAAGACCCAGGCATACTTGAAGGAGCCCTTTCCCATCTCAGCAGCCTCCTTCTCAAATTTTTCAATGGTTCTTT  
TGTCGATGCCACCGCATTTATAGATCAGATGGCCAGTAGTGGTGGACTTGCCGAATCTACGTGTCCAATGACGA  
CAATGTTGATATGAGTCTTTTCTTTCCCATTTTGGCTTTTAGGGGTAGTTTTACGACACCTGTGTTCTGGCGG  
CAAACCCG

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**FIGURE 2069**

ACGGGTTTGCCGCCAGAACACAGGTGTCGTGAAAACCTACCCCTAAAAGCCAAAATGGGAAAGGAAAAGACTCATA  
TCAACATTGTCGTCATTGGACACGTAGATTCGGGCAAGTCCACCACTACTGGCCATCTGATCTATAAAATGCGGTG  
GCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCTGCTGAGATGGGAAAGGGCTCCTTCAAGTATGCCT  
GGGTCTTGGATAAACTGAAAGCTGAGCGTGAACTGGTATCACCATTGATATCTCCTTGTGGAAATTTGAGACCA  
GCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGAGACTTTATCAAAAACATGATTACAGGGACATCTC  
AGGCTGACTGTGCTGTCTGATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCCAAGAATGGGCAGA  
CCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAACATAATTGTCGGTGTTAACAAAATGGATTCCA  
CTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGCT  
ACAACCCCGACACAGTAGCATTGTTGTCCTTCTGGTTGGAATGGTGACAACATGCTGGAGCCAAGTGCTAACA  
TGCCTTGGTTCAAGGGATGGAAAGTCACCCGTAAGGATGGCAATGCCAGTGGAACACGCTGCTTGAGGCTCTGG  
ACTGCATCCTACCACCAACTCGTCCAAGTGAAGCCCTTGCCTGCTCTCCAGGATGTCTACAAAATTTGGTG  
GTATTGGTACTGTTTCTGTTGGCCGAGTGGAGACTGGTGTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAG  
TCAACGTTACAACGGAAGTAAATCTGTGCAATGCACCATGAAGCTTTGAGTGAAGCTCTTCTGGGGACAATG  
TGGGCTTCAATGTCAAGAATGTGTCTGTCAAGGATGTTTCGTGCTGGCAACGTTGCTGGTGACAGCAAAAATGACC  
CACCAATGGAAGCAGCTGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAAGCGCCGGCTATG  
CCCCTGTATTGGATTGCCACACGGCTCACATTGCATGCAAGTTTGTGAGCTGAAGGAAAAGATTGATCGCCGTT  
CTGGTAAAAAGCTGGAAGATGGCCCTAAATTTCTGAAGTCTGGTGATGCTGCCATTGTTGATATGGTTCTGGCA  
AGCCCATGTGTGTTGAGAGCTTCTCAGACTATCCACCTTTGGGTCGCTTTGCTGTTTCGTGATATGAGACAGACAG  
TTGCGGTGGGTGTCATCAAAGCAGTGGACAAGAAGGCTGCTGGAGCTGGCAAGGTCACCAAGTCTGCCAGAAAAG  
CTCAGAAGGCTAAATGAATATTATCCCTAATACCTGCCACCCCACTCTTAATCAGTGGTGGAAGAACGGTCTCAG  
AACTGT

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**FIGURE 2070**

CCGGCTCGCGCCCTCCGGGCCCAGCCTCCCGAGCCTTCGGAGCGGGCGCCGTCCCAGCCCAGCTCCGGGGAAACG  
CGAGCCGCG**ATG**CCTGGGGGGTGCTCCCGGGGCCCCGCCCGGGGACGGGGCGTCTGCGGCTGGCGCGACTAGCG  
CTGGTACTCCTGGGCTGGGTCTCCTCGTCTTCTCCACCTCCTCGGCATCCTCCTTCTCCTCCTCGGCGCCGTTT  
CTGGCTTCCGCCGTGTCCGCCAGCCCCGCTGCCGACAGTGCCCCGCGCTGTGCGAGTGCTCCGAGGCAGCG  
CGCACAGTCAAGTGCGTTAACCACAATCTGACCGAGGTGCCACGGACCTGCCCGCCTACGTGCGCAACCTCTTC  
CTTACCGGCAACCAGCTGGCCGTGCTCCCTGCCGGCGCCTTCGCCCCGCCGCCGCTGGCGGAGCTGGCCGCG  
CTCAACCTCAGCGGCAGCCGCCCTGGACGAGGTGCGCGCGGGCGCCTTCGAGCATCTGCCAGCCTGCGCCAGCTC  
GACCTCAGCCACAACCCACTGGCCGACCTCAGTCCCTTCGCTTTCTCGGGCAGCAATGCCAGCGTCTCGGCCCCC  
AGTCCCCCTTGTGGAAGTGATCCTGAACCACATCGTGCCCCCTGAAGATGAGCGGCAGAACCGGAGCTTCGAGGGC  
ATGGTGGTGGCGGCCCTGCTGGCGGGCGTGCAGTGCAGGGGCTCCGCCGCTTGGAGCTGGCCAGCAACCACTTC  
CTTTACCTGCCGCGGGATGTGCTGGCCCACTGCCAGCCTCAGGCACCTGGACTTAAGTAATAATTGCTGGTG  
AGCCTGACCTACGTGTCTTCCGCAACCTGACACATCTAGAAAGCCTCCACCTGGAGGACAATGCCCTCAAGGTC  
CTTACAATGGCACCCCTGGCTGAGTTGCAAGGTCTACCCACATTAGGGTTTTCTGGACAACAATCCCTGGGTC  
TGCGACTGCCACATGGCAGACATGGTGACCTGGCTCAAGGAAACAGAGGTAGTGAGGGCAAAGACCGGCTCACC  
TGTGCATATCCGGAAAAAATGAGGAATCGGGTCCTCTTGGAAGTCAACAGTGCTGACCTGGACTGTGACCCGATT  
CTTCCCCCATCCCTGCAAACCTCTTATGTCTTCCTGGGTATTGTTTTAGCCCTGATAGGCGCTATTTTCTCCTG  
GTTTTGTATTTGAACCGCAAGGGGATAAAAAAGTGGATGCATAACATCAGAGATGCCTGCAGGGATCACATGGAA  
GGGTATCATTACAGATATGAAATCAATGCGGACCCAGATTAAACAAACCTCAGTTCTAACTCGGATGTCT**TGAGAA**  
ATATTAGAGGACAGACCAAGGACAACCTCTGCATGAGATGTAGACTTAAGCTTTATCCCTACTAGGCTTGCTCCAC  
TTTCATCCTCCACTATAGATACAACGGACTTTGACTAAAAGCAGTGAAGGGGATTGCTTCCTTGTTATGTAAAG  
TTTCTCGGTGTGTTCTGTTAATGTAAGACGATGAACAGTTGTGTATAGTGTTTTACCCTCTTCTTTTTCTTGAA  
CTCCTCAACACGTATGGAGGGATTTTTAGGTTTCAGCATGAACATGGGCTTCTTGCTGTCTGTCTCTCTCAG  
TACAGTTCAAGGTGTAGCAAGTGTACCCACACAGATAGCATTCAACAAAAGCTGCCTCAACTTTTTCGAGAAAAA  
TACTTTATTCATAAATATCAGTTTTATTCTCATGTACCTAAGTTGTGGAGAAAATAATTGCATCCTATAAACTGC  
CTGCAGACGTTAGCAGGCTCTTCAAATAACTCCATGGTGCACAGGAGCACCTGCATCCAAGAGCATGCTTACAT  
TTTACTGTTCTGCATATTACAAAAATAACTTGCAACTTCATAACTTCTTTGACAAAGTAAATTACTTTTTTGAT  
TGCAGTTTATATGAAATGTACTGATTTTTTTTTTAATAAACTGCATCGAGATCCAACCGACTGAATTGTTAAAAA  
AAAAAAAAAATAAGATTCTTAAAGAA

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**FIGURE 2071**

MPGGCSRGPAAGDGRLRLARLALVLLGWVSSSSPTSSASSFSSSAPFLASAVSAQPPLPDQCPALCECSEAARTV  
KCVNRNLTEVPTDLPAYVRNLFLTGNQLAVLPAGAFARRPPLAELAALNLSGSRLDEVRAFAFEHLPSLRQLDLS  
HNPLADLSPFAFSGSNASVSAPSPLVELILNHIVPPEDERQNRSFEGMVVAALLAGRALQGLRRLELASNHFLYL  
PRDVLAQLPSLRHLDLSNNSLVSLTYVSFRNLTHLESLHLEDNALKVLHNGTLAELQGLPHIRVFLDNNPWVDCD  
HMADMVTWLKETEVVQGDRLTCAYPEKMRNRVLLELNSADLDCDFILPPSLQTSYVFLGIVLALIGAIFLLVLY  
LNRKGIKKWMHNIRDACRDHMEGYHYRYEINADPRLTNLSSNSDV



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**FIGURE 2072**

CCTGGAGGCCGGCTTGGCGGCCAGGCGCAAGTTCGCGACGTCACCCGATCCGACCCTGGTACCCGGAGCGGCCCT  
GGCGCGGCTGTCGGCTGGCACCAGCTCCCTGCAGGAAGAGTGGAGAGGTTGTTCCCGCGGGGAGCGGGTACCGG  
CCGCATCCCGGCCGGACCAGGGAGCCTGGGCGCCGGCAGTTCGGCTGCTGGTGTGTTAATGTGTGTTTTTGGTCTT  
CTCCCCAAGCAATGGAAACAGAGTTGCTGCTTCAGTGGTAGTAGTACTTGCAATTCAAGTAACACTAACTTAAAA  
TCTACTTTAGACACAGTGGGCGATAGTATGAAAGAACCAAGAAGGATTTCGGCTGTCCTGGAGCTGATAATGCTG  
CAAACAAGCCATGATGAGATGTTCTCCACATTTACAAAATCCGGGAGACTGCGGATGGGCTGTGCCTGGAGGTG  
GAGGGGAAATTGGTAAGTAGGACAGAGGGTAACATTGATGACTTGCTCATTGGTGGAAATGCCTCCGCTGAAGGC  
ACTGAAAGCGAAGGCCAACTTGAAGAACAGAGACCAGAAAGAGTAAAACCTTTTATGACAGGGGCTGCAGAACAA  
ATCAAACACATCCTTGCTAATTTCAAAGCTACCACTTCTTTATTGGTGAAAACATGAATCCAGATGGCATGGTT  
GCTCCACAGGACTACCAAATAGAAGTTCAAGCTTCGGATGACACTGAAAGGTGTTCAGGAGATTTTGGTTCCACT  
AGAAATAATGAAAATTTATGCCAAGAATAG

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**FIGURE 2073**

MCVFGLLPKQWKQSCCFSGSSTCNSSNTNLKSTLDTVGDSMKEPRRISAVLELIMLQTSHEMFSHIYKIRETAD  
GLCLEVEGKLVSRTEGNIDDLIGGNASAEGTESEGLEEQRPERVKPFMTGAEEQIKHILANFKSYHFFIGENM  
NPDGMVAPQDYQIEVQASDDTERCSGDFGSTRNNENLCQE

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**FIGURE 2074**

AGAGAGGAGCCGACTCGGCAGGGACTGGGGACCGGGCCGAGAGTGCGAGCGAGCGAGGGAGGGAGTGAGGGAGC  
GTGCGAGCCAGAAGGGGAAAGGCGGCCACTCGTGCTGAGCGACCGCAGAGGGGAGTGGGAGCAGTGGGGTAAAG  
GAGCGGGGGGCGGGAATAAGAAAGGCCGAGAGAAGGCGGACAGAGGGCTAGTGGTGGTGGTGGTGGTAGGGGGAGA  
AGGAGGAGCTGGAGGAGGGCAGGGGCTGAGGGAGTGAAGCGGACGCGCGAGGGAGGGGAGGGGAAGGGAAGG  
GAAGGGAAGGGGGGGTACGCGGGGGCGCGCGCGCACCGGGAGCGCGCTCGGAGGCGAGTGGAACTGGATCGG  
GTTTGCTGCCAGCGGCGTGAGCTTCGGCCGCCATTTTACAACAGCTCCACTCGCGCCGGACACAGGGAGCAGCGA  
GCACGCGTTTCCCGCAACCCGATACCATCGGACAGGATTTCTCCGCCTCAGCCCAACGGGGAGATCTCTGGAAAC  
ATGGCTACAGAACATGTTAATGGAAATGGTACTGAAGAGCCCATGGATACTACTTCTGCAGTTATCCATTAGAA  
AATTTTCAGACATTGCTTGATGCTGGTTTACCACAGAAAGTTGCTGAAAACTAGATGAAATTTACGTTGCAGGG  
CTAGTTGCACATAGTGATTTAGATGAAAGAGCTATTGAAGCTTTAAAAAGAATTCAATGAAGACGGTGCATTGGCA  
GTTCTTCAACAGTTTAAAGACAGTGATCTCTCATGTTTCAAGCAAAAAGTGCCTTTTTATGTGGAGTCATGAAG  
ACTTACAGGCAGAGAGAAAAACAAGGGACCAAAGTAGCAGATTCTAGTAAAGGACCAGATGAGGCAAAAATTAAG  
GCACTCTTGAAAGAACAGGCTACACACTTGATGTGACCACTGGACAGAGGAAGTATGGAGGACCACCTCCAGAT  
TCCGTTTATTAGGTCAGCAGCCTTCTGTTGGCACTGAGATATTTGTGGGAAAGATCCCAAGAGATCTATTTGAG  
GATGAACTTGTTCCATTATTTGAGAAAGCTGGACCTATATGGGATCTTCGTCTAATGATGGATCCACTCACTGGT  
CTCAATAGAGGTTATGCGTTTGTCACTTTTTGTACAAAAGAAGCAGCTCAGGAGGCTGTTAACTGTATAATAAT  
CATGAAATTCGTTCTGGAAAACATATTGGTGTCTGCATCTCAGTTGCCAACAATAGGCTTTTTGTGGGCTCTATT  
CCTAAGAGTAAACCAAGGAACAGATTCTTGAAGAATTTAGCAAAGTAACAGAGGGTCTTACAGACGTCATTTTA  
TACCACCAACCGGATGACAAGAAAAAAACAGAGGCTTTTGTCTTCTTGAATATGAAGATCACAAAACAGCTGCC  
CAGGCAAGGCGTAGGTTAATGAGTGGTAAAGTCAAGGTCTGGGGGAATGTTGGAAGTGTGAAATGGGCTGATCCT  
ATAGAAGATCCTGATCCTGAGGTTATGGCAAAGGTAAAAGTGCTGTTTGTACGCAACCTTGCCAATACTGTAACA  
GAAGAGATTTTAGAAAAGGCATTTAGTCAGTTTGGGAACTGGAACGAGTGAAGAAGTTAAAAGATTATGCGTTC  
ATTCATTTTGTATGAGCGAGAIGGTGCTGTCAAGGCTATGGAAGAAATGAATGGCAAAGACTTGGAGGGAGAAAAT  
ATTGAAATTTGTTTTTGGCAAGCCACCAGATCAGAAAAGGAAAGAAAGAAAGCTCAGAGGCAAGCAGCAAAAAAT  
CAAATGTATGACGATTACTACTATTATGGTCCACCTCATATGCCCCCTCCAACAAGAGGTCGAGGGCGTGGAGGT  
AGAGGTGGTTATGGATATCCTCCAGATTATTATGGATATGAAGATTATTATGATTATTATGGTTATGATTACCAT  
AACTATCGTGGTGGATATGAAGATCCATACTATGGTTATGAAGATTTTCAAGTTGGAGCTAGAGGAAGGGTGGT  
AGAGGAGCAAGGGGTGCTGCTCCATCCAGAGGTCGTGGGGCTGCTCCTCCCCGCGGTAGAGCCGGTTATTCACAG  
AGAGGAGGTCTGGATCAGCAAGAGGCGTTCGAGGTGCGAGAGGAGGTGCCCAACAACAAAGAGGCCGCGGGTA  
CGTGGTGCGAGGGGTGGCCGCGGTGGAAATGTAGGAGGAAAGCGCAAAGCTGATGGGTACAACCAGCCAGATTCC  
AAGCGGCGCCAGACCAATAATCAGAACTGGGGCTCCCAACCCATTGCTCAGCAACCGCTCCAAGGTGGTGATCAT  
TCTGGTAACTATGGTTACAAATCTGAAAACCAGGAGTTTTATCAGGATACTTTTGGGCAACAGTGGAAGTAGAAA  
CAGTAGGGCCTCTGTAAAATTGGAGACTGATAGGTTGATCAGAACTCACCTAAATCTGAACGGGTGCCGCTAT  
AATTTGTGACATCTGGCAAGATTTCCCTTTATGTATATATTTTAAACAATCCGCTTGACACGAACAAAGCCACAC  
TTCTAACTGCTTCTGGCGAAGTATTTTATTTTAAATTTTTTCAATAAAGATATTCTTAGATACTGAAAGAAAT  
AGTTAATGAGTTTGCATTTGTGCTTGAGAAAATTTGGCTCAAGTCCATTTGGCTGTAGTGTCAACGATGTTTCCA  
GTAGTGTTTAGATTGGTGTCTTCAAAGGTAGTTGATTAAAACCAAGTGTGTCTTTAATATCTTGTATCAGAATA  
ACTTTGTATGTTACCAACTTAAATTGCTAGAATAAGGTAAATTGATACACAAGTCTATTTTTAATTTAGAACTT  
TGACCTAATTTGGGTTTTCAAACCATTTTGGCTACTTGTATCTTTATGCTGTTGTTTATTTCAATAAAAAAT  
CACACCT

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**FIGURE 2075**

ATGGCGTGCGGCTTTGCGCGCGCTATTGCTTGCCAGCTTTCCAGAGTGTTGAATCTTCCACCAGAAACTTGATC  
ACATCAATATCTGCAGTTCCAATTTCCCAAAAAGAAGAAGTAGCTGATTTTCAGCTTTCTGTGGATTCTTTATTG  
GAAAAAGACAATGACCATTCAAGACCAGATATTCAAGTTCAAGCCAAGAGACTAGCAGAGAAGCTAAGATGTGAT  
ACAGTGGTGAGTGAAATCAGTACTGGTCAAAGGACTGTAAATTTCAAAATAAACAGAGAGCTCTTAACAAAGACA  
GTGCTACAACAAGTAATTGAAGATGGCTCAAAATATGGATTAAAAAGTGAACCTTTTCTCTGGACTTCCCAGAAG  
AAGATTGTGGTTGAATTCAGTTCACCTAATGTTGCCAAAAAATTTTCATGTTGGACATTTGCGTTCTACCATCATA  
GGAAATTTTATAGCAAATCTCAAAGAAGCTTTAGGACATCAAGTAATAAGAATAAATTACCTTGGCGATTGGGGC  
ATGCAGTTTGGTCTTCTGGGAACTGGCTTCCAGCTGTTTGGCTATGAGGAAAACTGCAGTCCAATCCTCTACAG  
CATCTCTTTGAAGTTTATGTACAAGTTAATAAAGAAGCAGCAGATGATAAAAGTGTAGCAAAAGCAGCACAGGAG  
TTCTTCCAACGATTGGAAGTGGGCGATGTGCAAGCACTTTCACTGTGGCAAAATTTTCGGGACTTGAGCATTGAA  
GAGTACATTTCGGGTTTACAAGCGTCTGGGAGTATATTTTGATGAATATTCAGGAGAATCATTTTATCGTGAAAAA  
TCTCAAGAGGTCTTAAAGTTGCTGGAGAGTAAAGGACTCCTACTGAGAACAATAAAAGGAACGGCTGTAGTAGAT  
CTCTCTGGGAATGGCGACCCCTCCTCAATTTGTACTGTAATGCGAAGTGATGGGACTTCTCTCTATGCAACCAGA  
GATCTTGCAGCTGCTATAGATCGAATGGACAAGTATAATTTTGATACAATGATATATGTGACAGATAAAGGACAA  
AAAAAGCATTTTCAGCAAGTATTCCAAATGCTGAAGATCATGGGATATGACTGGGCAGAAAGGTGCCAGCACGTG  
CCCTTTGGAGTAGTACAGGGAATGAAGACTCGAAGAGGAGATGTCACTTTCCTGGAAGATGTTTTAAATGAGATT  
CAATTAAGGATGCTACAGAACATGGCTTCAATTAAGACAACATAAAGAACTCAAGAACCCACAAGAGACTGCAGAG  
AGGGTCGGGCTCGCAGCACTCATTATTCAGGACTTCAAAGGTTTACTCTTATCTGACTACAAGTTCAGCTGGGAT  
CGTGTTTTCCAGAGTCGCGGGGACACAGGAGTCTTCTACAGTACACACACGCCCGCTCCACAGTTTGGAAAGAG  
ACTTTTGATGTGGGTACCTGAATGACTTCAACACTGCTTGTTTACAAGAGCCACAGTCTGTTTCAATTCTTCAG  
CATCTTCTCAGGTTTCGACGAGGTGCTTTATAAATCATCTCAGGACTTTCAACCCAGGCATATCGTCAGTTACCTT  
CTAACTTTAAGTCATCTTGCAGCTGTGGCACACAAACACTACAAATAAAAGATAGTCCTCCTGAAGTGGCTGGG  
GCCAGACTTCATCTTTTCAAAGCTGTCCGTTCTGTCTAGCCAATGGAATGAAACTTCTTGGAATAACACCTGTA  
TGTAGGATGTAA

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**FIGURE 2076**

MACGFRRAIACQLSRVLNLPENLITSISAVPISQKEEVADFQLSVDSLLEKDNDHSRPDIQVQAKRLAEKLRCD  
TVVSEISTGQRTVNFKINRELLTKTVLQQVIEDGSKYGLKSELFSGLPQKKIVVEFSSPNVAKKFHVGHRLRSTII  
GNFIANLKEALGHQVIRINYLGDWGMQFGLLGTGFQLFGYEEKLQSNPLQHLEFVYVQVNKEAADDKSVAKAAQE  
FFQRLELGDVQALSLWQKFRDLSIEEYIRVYKRLGVYFDEYSGESFYREKSQEVCLKLESKGLLLRTIKGTAVVD  
LSGNGDPSSICTVMRSDGTSLYATRDLA AIDRMDKYNFDTMIYVTDKGQKKHFQQVFQMLKIMGYDWAERCQHV  
PFGVVQGMKTRRGDVTFLLEDVLNEIQLRMLQNMASIKTTKELKNPQETAERVGLAALI IQDFKGLLLSDYKFSWD  
RVFQSRGDTGVFLQYTHARLHSLEETFGCGYLNDENTACLQEPQSVSILQHLLRFDEVLYKSSQDFQPRHIVSYL  
LTLSHLA AVAHKTLQIKDSPPEVAGARLHLFKAVRSVLANGMKLLGITPVCRM

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**FIGURE 2077**

TTTTTTTTTTTTTTGTTTCCTGAATTATTTAAGTTTCTTATAGATTCTGGATATTAGACCTTCTTAGATGCATA  
GCTTATGAATATTTTCTCCATTATTTAGGTTGTAGGGAAAGGAGAGCTTTTGATTTTTTTAAGCATTACAGA  
TAATGTTGAAGTCACTGATATATATTTGTTTACTGCATTCCCTACCCTGCTTCCCTAGAGAGAAGTATCTCAT  
GATGCAAAATGATTTATTTTACGAATCAGTTGCTTTGTGTTGTTTCTTTGTTTTTGTATTTTTTTTACCTAC  
CCAGTGAAAAGGATAAATGGCATTGTCCATCTCTTTAATGAACACTGAGTGTTAAGAAGAATATTCTTCTTTTT  
CTCATGTTGAACTCAAATTACAACATTTAAAAAATATGTCATTTGGAGGTCAGTGGAGAGGTTTGAATTAGAAG  
CATGTATTTGGAGTAGTAGAGGAAGCATTGTAGAAGAGGTAAAGAGACCTGGGCTTTTTTCTCAGTCTGTTTTT  
TTTGCAGTAGGATTTTAAAGGAGACATTTAGCTTGCCAGACATCAGTTTTCATGTCTATAAAATAAGGTGGCTAG  
TATAAGAGGAAGAATTTTTTGAGACTAGGTCTTGCTCTGTCACCCAGACTGGAGTGCAGTGGCATGATCTCGGCT  
CACTGCAACCTCTGCCTCCTGGGTTCAAGCAATTCTCGTGCCTAAGCCTCCCGAGTAGCTGGGCTTACGGGCACA  
TGCCACCACGCCTGGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTTTCCATGTTGGCCAGGCTGGTCTCAAA  
CTCCTGACCTTAAGTGGTCCACTTGCCCTCGGCCCTCCCAAAGTGCTGGGATCTGTGCCCAGACAGAAGAGGAAGAA  
TTTTATTAAGATGATAAGAAAAACATTCTGAATAAAATACTAGGTTATTTCTCATTTTTCTTGCTTTTTAATTTTGT  
TTTATTTATTTATTTATTTATTTTACTTTTTTGAGACAGAGTTTCGCTCTTGTCACCCAGGCTGGAGTGCAGTG  
GCACAATCTTGACTCGCTGCAGTCTCCACCTCCAGGATTCAAGCGATTCCCCTGCCTCAGTCTCCCAAGCAGCTG  
GGATTGTAGGTACACACCACCATGCCTGGCTAATTTTTGTGTGTGTGTGTGTATTTTTAGTAGAGATGGGGTTTT  
ACCATGTGGCCAGGCTGGTCTAGAACTCAACCTCAGGTGATCCGCCTGCCTTAGCCTCCCAAAGTGCTGGGATTA  
CAGGCATGAGCCACCGCTCTCGGCCCCCTTGCTTTTAATTTTGAAAGTACACATAACACCTTCTTCTGGTAAAGG  
TATGCTCTCAATGGAGAACTCATAGTGATTAGTCTTTGTTTAAACAATAATGCTTTTAAGGTAACAGTTCTATCTC  
GTTTCGATGTCTGTCTTTAGAGAAGTAGCTGATTTTCAGCTTCTGTGGATTCTTTATTGGAAAAAGACAATGAC  
CATTCAAGACCAGATATTCAAGTTCAAGCCAAGAGACTAGCAGAGAAGGTACGTTAGCACTATTATCTCTTTTTG  
ACATTGTAATAAACTTGTTATTAATAAAAAAGTACTTTGCAGGCTATCTCAGCCATAATAGTGAATTTAATAGTGT  
TCTTTGAGGCATCTTGTTGTAATATAATTTAAATTCATTTTAGCCATGTACTATAAGGTTATAATGATTTTTCAGA  
TTAGTTATAAAGCACTCCTCTTGAGCTGACATTGTTCAATTTTTTGATTAAACCACTTACAGGAAGACTGAAGTGT  
TAATTAAATTTACAGATTGAAGCTGG

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**FIGURE 2078**

MPFRLANFCIFSRDGVFPCWPGWSQTPDLKWSTCLGLPKCWDLCPPDRRGRIL

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**FIGURE 2079A**

GATTGCCCCCTGTGGGTCACTTTCTCAGTCATTTTGAGCTCAGCCTAATCAAAGACTGAGGTTATGAAGTCGATC  
CTAGATGGCCTTGCAGATACCACCTTCCGCACCATCACCCTGACCTCCTGTACGTGGGCTCAAATGACATTGAC  
TACGAAGACATCAAAGGTGACATGGCATCCAAATTAGGGTACTTCCACAGAAATTCCCTTTAACTTCCTTTAGG  
GGAAGTCCCTTCCAAGAGAAGATGACTGCGGGAGACAACCCCCAGCTAGTCCCAGCAGACCAGGTGAACATTACA  
GAATTTTACAACAAGTCTCTCTCGTCCTTCAAGGAGAATGAGGAGAACATCCAGTGTGGGGAGAACTTCATGGAC  
ATAGAGTGTTCATGGTCTGAACCCAGCCAGCAGCTGGCCATTGCAGTCTGTCCCTCACGCTGGGCACCTTC  
ACGGTCTCTGGAGAACCTCCTGGTGCTGTGCGTCATCCTCCACTCCCGCAGCCTCCGCTGCAGGCCTTCCTACCAC  
TTCATCGGCAGCCTGGCGGTGGCAGACCTCCTGGGGAGTGTCATTTTTGTCTACAGCTTCATTGACTTCCACGTG  
TTCCACCGCAAAGATAGCCGCAACGTGTTTCTGTTCAAACCTGGGTGGGGTTCACGGCCTCCTTCACTGCCTCCGTG  
GGCAGCCTGTTCTCACAGCCATCGACAGGTACATATCCATTACAGGCCCCCTGGCCTATAAGAGGATTGTCCACC  
AGGCCCAAGGCCGTGGTGGCGTTTTGCTGATGTGGACCATAGCCATTGTGATCGCCGTGCTGCCTCTCCTGGGC  
TGGAAGTGCAGAACTGCAATCTGTTGCTCAGACATTTTCCACACATTGATGAAACCTACCTGATGTTCTGG  
ATCGGGGTACACAGCGTACTGCTTCTGTTTCATCGTGTATGCGTACATGTATATTCTCTGGAAGGCTCACAGCCAC  
GCCGTCCGCATGATTACAGCGTGGCACCAGAAGAGCATCATATCCACACGTCTGAGGATGGGAAGGTACAGGTG  
ACCCGGCCAGACCAAGCCCCGATGGACATTAGGTTAGCCAAGACCCTGGTCTGATCCTGGTGGTGTGATCATC  
TGCTGGGGCCCTCTGCTTGCAATCATGGTGTATGATGTCTTTGGGAAGATGAACAAGCTCATTAAAGACGGTGT  
GCATTCTGCAGTATGCTCTGCCTGCTGAACCTCCACCGTGAACCCCATCATCTATGCTCTGAGGAGTAAGGACCTG  
CGACACGCTTTCCGGAGCATGTTTCCCTCTGTGAAGGCACTGCGCAGCCTCTGGATAACAGCATGGGGGACTCG  
GACTGCCTGCACAAACACGCAACAATGCAGCCAGTGTTACAGGGCCGAGAAAGCTGCATCAAGAGCACGGTC  
AAGATTGCCAAGGTAACCATGTCTGTGTCCACAGACACGTCTGCCGAGGCTCTGTGAGCCTGATGCCTCCCTGGC  
AGCACAGGAAAAGAATTTTTTTTTTTAAGCTCAAAATCTAGAAGAGTCTATTGTCTCCTTGGTTATATTTTTTTA  
ACTTTACCATGCTCAATGAAAAGGTGATTGTCAACCATGATCACTTATCAGTTTGCTAATGTTTCCATAGTTTAGG  
TACTCAAACCTCATTCTCCAGGGGTTTACAGTGAAGAAAGCCTGTTGTTTAAAGTGAAGTGAACGATCCTTCAAAGT  
CTCAATGAAATAGGAGGGAAACCTTTGGCTACACAATTGGAAGTCTAAGAACCCATGGAAAAATGCCATCAAATG  
AATAATGCCTTTGTAACCACAACCTTTCACTATAATGTGAAATGTAAGTGTCCGTAGTATCAGAGATGTCCATTTT  
TACAAGTTATAGTACTAGAGATATTTTGTAAATGTATTATGTCCTGTGAGATGTGTATCAGTGTGTTATGTGCTA  
TTAATATTTGTTTAGTTTACGCAAACTGAAAGGTAGACTTTTATGAGAACAATGGACAAGCAGTGGATACGTGTC  
AATGTGTGCACTTTTTTTCTATATTATTGCCCATGATATAACTTTAGAAATAAACCTTAATATTTCTTCAAATAT  
CTCTATTTAATTTTGACACTGAAATAACCGTAAAGGTTTATTTTTCTGTTACCTCAACAAGAAGAATTTGAAGAC  
TTCAAATATTGAGCAGAATTCATTACATACTTAAAAATTTATTAGCCCTGCATTTTTCATAGGAAGACACATTATC  
TTCTGGACTATAGCTGTTCTAATGGATTATAATCAGAATGGAAGAGAGAAAGCATATTGACTTTTTTTGAGCGAC  
ATCTCTGACTTTCTTTAGTCTTTAGCTATTACTGGATCTCTTAAGACAGCATGTGTTAATCTTAATGTATATCGT  
TATCACTGTGCAGTTGCTGTTTACTTGAATAGTATTGTGTTCCCTATATTCCAGGTTTAAAGTAGATTTTCATGCCTG  
GGTGGCCAAACAACAGTCTTCATTTTTTTTTTAATTGAAAAGAAGTAGTGTCTGGATCAGTAAATTTACTGTGTG  
TGAGTGTGAATATAAATGTGTGTATGTGTGTTTCTGTCTGTAAGTGTACAGTAATGTCATAAAGTGAGAAAAAC  
TGTGACCAAGTATAAACTTTTACCACCTTGCTGCACCTCTTGACATGGATTGAGTTTCTAAAATTGAGTTCTTCTCT  
GTAATCTTGTGATAAAAAATACTGACTCCAACCATTCAAAAATTTACCCCCATCCCTCCTTAAGAGATTGGATCA  
AGTATTACTAAATTGACCTTTAGGTATTACACAAGACCAGTGCTTAGCAAAAAATAATGACAGGCATCCAAGGAA  
GGGATGTATTTGTAGTGTATTGTCAGGAAAGGAGAGTACTTTGGTTTCTGAGCACCAGTATTGAGCAATATGT  
CAGTCACTAAAAGGAAGACAGTTCTACAGAAAAACAATGGTAACATTTTCAATAGCGTGTGTAGATAGTATGCA  
CTATATACATCACGTTAAAGTAGGACTATCACACCCAGCCCATGTGGCTAAAAAGCTGAATCAGACAGTGGATG  
AGACACACAACGGCAGTGAAGAACCGATACACTTGGCATTGACGTCTAGCTATGCTGTATCTGTGCTTTGCCAC  
ATGCCCTTGGTGACAGCTGAGCACCAGCTCTGTCTTGGTAGGTTTGGGCTAAGGAACAAATCTCTCCTTTGCTC  
GTGGTTAGCAAGATACACTCAAGCATGAAGATAAACACAGCTGCTTTCTTCTTACACCCCGGTCTCATGCTCCTT  
AATGGCGCCATGGGTGCTTGTGCGCCTTTTCCAGTAAGGAATGATATTGCTGAAGAATCTACTTAACCCTGAC  
AAATTTTAAATTATAATCTCTTCTTATACAGATAAAACATGACTCCTACAAGGCCCAAGGTTTACATAGTCTGAA  
GTGAAGTACAGAGCTGGCATCTATCTGGTGATTCTAGCTCTCGAGATACCCAAGCAGCCTGATGGGGCAGTTCC  
CCTTCTTACGGTTACGCTCTAAGGCAGGATGTGGCTTATGAGATACTTTGCATTGTCTGTCTGCACACCTTGAA



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**FIGURE 2079B**

TCTGCCTGCTGGCTCCCTTACCTTCTCTGTGCATGTGCAGATGAAGGCTCAGGGTGCTAGAGGATTAGTAAG  
ATCTCTTTCTAAAGACAGGAGAGATTATTTACAAGAAGAACTCACCAGGGTTTAGTTTGCAATTAAGAATTGCCA  
GTCTTTTGTCTGCATCATCTTGAACATTAATCCACATGTTTCAGAGCTCACCAGGCAGTACCAATGCTCTTTTC  
ACAGCTATGAAGAGCTAGAGAAATCTTGTTATGGTAGAAAAATTTACGATTCAATTTTGAAACTGCATTTGTG  
CGTATGCAGTGTAGATTTTATAGTGTGTTGTGCTTTCAAGATCTAAATCATATATAATAAAATTAAGGGACAATGG  
GGCTGACAGCACTAACTTGGTGCTTATTGATATTCTAAGAAATATCTGTGAAATATCATCACGTATGTTATACA  
ACCTTCATTTAAAAAGGTTTAAAACTAGTTAGATTCACTTTGACACTTTTCATATCATTTCCTTAACCCCAAGTGAC  
GAAAACATTGTCCCCAATGAATATACTCATTAGAATTACCATTGTTAATATCACTCATTAAATTAACCCCAATAT  
TAGATCCATTAAATTTAAATGATTTAAATTTAAGTAAGTTTTATAAGGCTCTGACATCAGAGGTATCTTACTTTTCCT  
CTGAGGATGATGTACTTGCCCTGACCATGCATTTTACCATCACACATGTTTCAGAAAGGGCCAAATTTCCAACCTG  
CTCATTTTTTTTTTATCAGAGTCATGATGAATCAGTCCTAGAATGTTTCATTTGCACAAGTAGGGCTGCCCTCCAA  
GAGGAACCTCTGATTTATTTTGTATGAAATATATGTGAAAGGATATGAATCTGAGAGATGCTGTAGACATCTGTC  
CTACACTTGAGATGATTTCCAAGCCTCTCTGGCACTTTGAGTTAAGTCTATCTGGTATTAAATGCCAAGGACCTT  
TTGCTGCCTAAATCCACTCTGCAGGAAATAGGCCCAACCACCAGATGAGAATTAGGCCCTGGATGAGTAGCGCTA  
TAGTTACTGTCCTGTTGATTAATTTCTGCCATTTTCATGTCCATAAAAGAGACCACCCATATCATGCACACAATTA  
GATTTCTCACACTCTAACTGTATATTTGTATGATATTTTAAATCTCCTAAATGCTGGGCAATGGCTATTAAACAA  
TTAATTGCTTGTCACTGGCCTTCTGATGAAATGTTAACAATGCCTATTGTAATATAGAAAAAACATTCTATCTA  
CTGATTTGGGCTGAATGTATGTAAATAGGTTTCTAAAAAGTCAGATGTTTGAGCAGTGGCCTACAAATCAGTAAT  
TTTCGGATGGGAGAGTTTCTTTACATTGCCGTGGCATCTTAAAAGCTATCTTCATGTAAATTGACTGTACTAGGC  
CTACTGGGGATCAGAGTTCCCAAGAAAGGAAACCTTTTCTGTATCTGGATTCAAATTTATTTCCAATGTTTCAA  
GCGGGAACATGACTCTTTATTGTCTGTAAATCTAACATTATTACTTTTCCTCTTAGAAGAATATTGTATTGTTA  
GATGTTTGTGAGCTGGTAACATCGTTGCAACCACTGCAATATCTTCGTTAGTAATCTGTATAATACTTTGTATA  
CAAGTACTGGTAAGATTGTTATTAAATGTAGCTTCAGTCATTAAATTACTATAGCAAAGTAGTACTTCTTCTGTA  
ATATTTACAATGTATTAAGCCACAGTATATTTTATTTCAATGTAATTAACTGTAACTTATTCAAAGAGAAAA  
CATCTCATCATGTCTATTGTCCAAAGTTACCTGGAATCAAATAAAAAATTCTAGATTACCATGAAGAACATA

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**FIGURE 2080**

GAGCGCGGTTACCGGACGGGCTGGGTCTATGGTCGCTCCGCGGGCCGCTCCGCCGGCTGGTGCTTTTTTATCAGG  
GCAAGCTGTGTTCCATGGCAGGGAACTTTTGGCAGAGCTCCCACTATTTGCAATGGATTTTGGATAAACAAGATC  
TGTTGAAGGAGCGCCAAAAGGATTTAAAGTTTTCTCTCAGAGGAAGAATATTGGAAGTTACAAATATTTTTTACAA  
ATGTTATCCAAGCATTAGGTGAACATCTTAAATTAAGACAACAAGTTATTGCCACTGCTACGGTATATTTCAAGA  
GATTCTATGCCAGGTATTCTCTGAAAAGTATAGATCCTGTATTAATGGCTCCTACATGTGTGTTTTTGGCATCCA  
AAGTAGAGGAATTTGGAGTAGTTTCAAATACAAGATTGATTGCTGCTGCTACTTCTGTATTAAAACTAGATTTT  
CATATGCCTTTCCAAAGGAATTCCTTATAGGATGAATCATATATTAGAATGTGAATTCTATCTGTTAGAACTAA  
TGGATTGTTGCTTGATAGTGTATCATCCTTATAGACCTTTGCTCCAGTATGTGCAGGACATGGGCCAAGAAGACA  
TGTGCTTCCCCTTGCAATGGAGGATAGTGAATGATACCTACAGAACGGATCTTTGCCTACTGTATCCTCCTTTCA  
TGATAGCTTTAGCTTGCCCTACATGTAGCCTGTGTTGTACAGCAGAAAGATGCCAGGCAATGGTTTGCTGAGCTTT  
CTGTGGATATGGAAAAGATTTTGAAAATAATCAGGGTTATTTTAAACTATATGAGCAGTGGAAGAATTTTCGATG  
AGAGAAAAGAGATGGCAACCATTCCTTAGTAAGATGCCAAAACCAAACCACTCCAAACAGTGAAGGAGAGCAGG  
GTCCAAATGGAAGTCAGAACTCTAGCTACAGCCAATCTTAAACATTCCGAAGAATTCCATAGTGGACCACTTGG  
AAATAAACCATTTGGACAGATTTTCACTAATGTCTTCAGTGAACACAAATGAAAATGAATAGCTTGTCTGTCAA  
GCATATTGGAAAGTGATTTTATTTTGGAAAATAAGTTTTCTTTAATATGATTCTAGTACATAATTGATTAAAA  
TCTCTTGATTATAAATGTTTGGAAAGGTTCTAAGGGGACCTACAGACAGACATACATAGACATTTCAAATTAAT  
AGCTTTTGATTAGTATAATATTTCTTAATTTGGATAATAAAAATTGTAGCTTTTTTATTAAGCCAGGAAACATGAA  
GCATAATTTGTTTAAATTTCTTTTGGTCATTGAGGGACCAAAAAAGGACGTAAAATTTACAGTCAATCTATGAG  
GGTTTTTTTCCCTCCATAAGTTTAACTTTAAACTGTATTTAAGGAATCAAATCTTACAAAATCCTGGAAGATTT  
TGGTAATGATGTTGATAATTTAGGGGAAATTAATCAAGTACCTATATTGATTTAAAAGTGATTTTATTTCAGTAG  
TTTGAGG

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**FIGURE 2081**

AGTCTCCCCAGGTTGTAGACGCTGCGGCCCGGCCGCGGGTAAATAACAGATCGGGGTGAAAGATCCAACATAAA  
GCTTTACCTGAGAAAGCCAAAAGAAGTAAAAGGCCTACTGTACCTCATGATGAAGACTCTTCAGATGATATTGCT  
GTAGGTTTAACTTGCCAACATGTAAGTCATGCTATCAGCGTGAATCATGTAAAGAGAGCAATAGCTGAGAATCTG  
TGGTCAGTTTGCTCAGAATGTTTAGAAGAAAGAAGATTCTATGATGGGCAGCTAGTACTTACTTCTGATATTGG  
TTGTGCCTCAAGTGTGGCTTCCAGGGATGTGGTAAAACTCAGAAAGCCAACATTCATTGAAGCACTTTAAGAGT  
TCCAGAACAGAGCCCCATTGTATTATAATTAATCTGAGCACATGGATTATATGGTGTTATGAATGTGATGAAAA  
TTATCAACGCATTGTAATAAGAAGGTTTGGCTCAGATAGTTGATTTTCTCCAGAAACATGCTTCTAAAACACAA  
ACAAGTGCATTTTCTAGAATCATGAACTTTGTGAAGAAAAATGTGAAACAGATGAAATACAGAAGGGAGGAAAA  
TGCAGAAATTTATCTGTAAGAGGAATTACAAATTTAGGAAATACTTGCTTTTTTAATGCAGTCATGCAGAACTTG  
GCACAGACTTATACTCTTACTGATCTGATGAATGAGATCAAAGAAAGTAGTACAAAACCTCAAGATTTTTCTTCC  
TCAGACTCTCAGCTGGACCCATTGGTGGTGGAACCTTCAAGGCCTGGACCACTGACCTCAGCCTTGTTCTGTTT  
CTTCACAGCATGAAGGAGACTGAAAAAGGACCACTTCTCCTAAAGTTCTTTTTAATCAGCTTTGTCAGAAGCGG  
GTGCATCTACATTTAATAATAATAATTATGAGTTACAAAATACTAATGTATTTCATCATTTAACATGAATAGTCGT  
TTTTACTGTAACCTTGCTCTTATTGCCCTGACTATGAAGAGAACTAAAATTTGTTACAGCTCTATGCTTTATGAA  
AATTATATCTCAGTCCTCAGAAGAAGCAGCTTATCCTCATATATAAGGAAATGGAGACACAGAAATTAAATGGCT  
CACCTAGTCTGAGTGAAAGCTGAGAATCAAATGGAGATCTGTCTGACTTGGATGCCTATGTTGTAATACCATA  
AAGTGAGAAAACCATAGAGTTGTAAAATCTAGAAAAGTACCGTAAGATAACATCTAATCTAGCTTTCTTATTTAA  
AAGATGAGCTGTGAGGCAAATAGAGTTTAAAGTGAATTTCTCAAGGTATTACAGTATGTTTAAAAACCAAATCCTT  
ATGTGCCTGAAATAAACACATAAAGGATCTGACTTGTAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2082**

MRVKDPTKALPEKAKRSKRPTVPHDEDSSDDIAVGLTCQHVSHAISVNHVKRAIAENLWSVCSECLEERRFYDGQ  
LVLTSDIWLCLKCGFQGCCKNSESQHSLKHKSSRTEPHCIIINLSTWIIWCYECDEKLSTHCNKKVLAQIVDFL  
QKHASKTQTSAFSRIMKLCEEKCEIDEIQGGKCRNLSVRGITNLGNTCFFNAVMQNLAQTYTLTDLMEIKESS  
TKLKIFPSSDSQLDPLVVELSRPGPLTSALFLFLHSMKETEKGPLSPKVLFNQLCQKRVHLHLI

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**FIGURE 2083**

AGTTTGTTGCTCCACCGAGTTCTGAAGAACGCCAGCAGCTCGCTGCTTAAAATTAAACCACAGGGTTCCATGAT  
GGGTCAACTTGATGGGAAAGTCATCATCCTGACAGCCGCTGCTCAGGGGATTGGCCAAGCAGCTGCCTTAGCTTT  
TGTAAGAGAAGGTGCCAAAGTCATAGCCACAGACATTAATGTGTCCAACTTCAGGAACTGGAAAAGTACCTGGG  
TATTCAAACTCGTGTCCTTGATGTCACAAAGAAGAAACAAATTGATCAGTTGCGCAATGAAGTTGAGAGACTTGA  
TGTTCTCTTTAATGTTGCTGGTTTTGTCCATCATGGAAGTGTCTGGATTGTGAGGAGAAAAGACTGGGACTTCTC  
GATGAATCTCAATGTGCGCAGCACGTACCTGATGATCAAGGCATTCTTCTCTAAAATGCTTGCTCAAAAATCTGG  
CAATATTATCACCATGTTTTCTGTGGTTTTCCAGCATCAAAGGAGTTGTGAACAGATGTGTGTACAGCACAAACAA  
GGCAGCCGTGATTGGCCTCACAAAATCTGTGGCTGCAGATTTTCATCCAGCAGGGCATCAGGTGCAACTGTGTGTG  
CCCAGGAACGGTTGATACGCCATCTCTACAAGAAAGAATACAAGCCAGAGGAAATCCTGAAGAGGCACGGAATGA  
TTTCCTGAAGAGACAAAAGATGGGACGATTTGCAACTGCAGAAGAAATAGCCATGCTCTGCGTGTATGTGGCTTC  
TGATGAATCTGCTTATGTAACGGTAACCCTGTCATCATTGATGGAGGATGGAGCTTGATTTTAGGATCTCCA  
TGGTGGGAAGGAAGGCAGGCTCTTCCTATCCACAGTGAACCTGGCTATGAAGAAAACCTACCAATCATCTCCTTC  
CTGCTAATCACATGTTAATGAAACTAAGCCCTTTTTTAACAATGTCACCTGTTTGCAAGAGTCTGATTCTTTAAGTA  
TATTAATCTCTTTGTAATCTCTTCTGAAATCATTGTAAAGAAATAAAAATATTGAACTCACAGCAAGAGAATAGT  
TTTTAAATAAATCTCAATTTGTAAGC

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**FIGURE 2084**

MGQLDGKVIILTAAAQGIGQAAALAFVREGAKVIATDINVSKLQELEKYLGIQTRVLDVTKKKQIDQFANEVERL  
DVL FNVAGFVHHGTVLDCEEKDWF SMNLNVRSTYLMIKAFLPKMLAQKSGNIITMFSVVSSIKGVVNR CVYSTT  
KAAVIGLTKSVAADFIQQGIRCNCVCPGTVDTPSLQERIQARGNP EEARNDFLKRQKMGRFATAEEIAMLCVYVA  
SDESAYVTGNPVIIIDGGWSL

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**FIGURE 2085**

ATGAATGCTATAAAGAGATTTCAGGATGGAAAATTAGTACAGAACAAAGCCTACTGTGGAGAATCAACACCACAG  
CATTTCACAGGCCTGCAGCCTTATGTGGTTAGCATGGATGAGGGTTCTTCAGGTTTCATGAGAATAGGCTATGAA  
CACTGGGTTTTGGTCTTCTTGATTCTCAGTGCCTGGATACCAGAAAAAGAGAAATATGAGATTGCAGAGCAGCCC  
AAGATTGATCAGAAAGCTGTGGACTCACAAATTTTACC AAAAATCAAAGTATTCCCTCAGCTCCAGTGCTACCTG  
CGATCTGTGTTTGCTCTGACGAATGGAATTTATCCTCACAAATTGGTGTTTTAA

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**FIGURE 2086**

MNAIKRFQDGKLVQNKAYCGESTPQHFTGLQPYVVSMDEGSSGFMRIGYEHWVLVFLILSAWIPEKEKEYEIAEQP  
KIDQKAVDSQILPKIKSIPQLQCYLRSVFALTNGIYPHKLVF



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**FIGURE 2087**

ACAATCCAGCCAATGGCAGAAGACTGCCGAAAATGTAGAAGAGTTAAGTGTGTGTCCTATGCGTTCTACCTCAAT  
GCAGATATCAGAGTCCCTTTGAGCTCCCTGAAGAATATACTCACACCAAAGTATTACCTGCACATAGCTGCTCCC  
TTCCACCTCGCGGCAGTTCAAAATGAAGCTGTTGTCATTTCTGGAAGGAACTAGCCCAGCAGATCAAGCAGAAA  
GTGCGGCAGGAGGTGGAAGAGTGGGTGGCCTCAGGCAACAAACCTGAGCATGATCCTGTACCTGCTGCTATAGTT  
CCAGCAAAAAAGATGACTTCTTGCAGGCAAGAAGGCTCCAGCCCAGAAGGTTCTGCCCAGAAAGCCACAGGCTA  
GAGGCAGTGCCTCCTCTGAAAGCTCAGAAGTTTCAAAAGCAACGTGCCCAGAAAGCATGTTGTCCAAAAGCATCT  
GGCAAGAAAGCGTTAAGAGGCTATTATAAAAGTAGTAAAGGTCCAACAACCTCAAGGACAAGAATGATGTATTT  
TCATCACTTGTGACTTCCGGTTTCCTAGACCAGATTTCCGGTCTGACCAGGTGCAGCCCCATCCTAGCAGC  
AGATTGCTTGTTCTCAGCATTCCCATCATGGAGAATCTTAGTGTGGTGGGAGGCTTGGGAAATACCGTTTTCAA  
GACCAGTGGATTAGTAGCCTGAAAACTCGCCAGCAGTTGCCTGCTTTTGTCTCTTCTGCTCTGGAAGAGCAC  
CTGATCCTCACTACCAAAAACTAA

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**FIGURE 2088**

MAEDCRKCRRVKCVSYAFYLNADIRVPLSSLKNILTPKYYLHIAAPFHAAVQNEAVVISGRKLAQQIKQKVRQE  
VEEWVASGNKPEHDEVPAAIVPAKKMTSCRQEGSSPEGSCPESHRLEAVPPLKAQKFQKQRAQKACCPKASGKKA  
LRGYKSSKGSNNFKDKNDVFSSLVTSGFLDQISGRSDQVQPHPSRLLVLSIPIMENLSVVGGLGNTVFKDQWI  
SSLKTRQQLPAFVIFLSLEEHLILTTKN

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**FIGURE 2089**

ACCTGATGGAGATCCAAGTGTGTTGGGCAGGATGAGATGATCGACGTCATTGGGGTGACCAAGGGCAAAGGCTACA  
AAGGGGTCACCAGTCGTTGGCACACCAAGAAGCTGCCCTGCAAGACCCACCGAGGCCTGTGCAAGGTGGCCTGTA  
TTGGGGCATGGCATCCTGCTCGTGTGGCCTTCTCTGTGGCACGTGCTGGGGAGAAAGGCTACCGTCACCGCACTG  
AGATCAACAAGAAGATCTATAAGATTGGCCAGGGCTACCTTATCAAGGATGGCAAGCTGATCAAGAACAATGCCT  
CCACTGACTCTGACCTGTCTGACAAGAGCACCAATCCTCTGGGTGGCTTTGTCCACTATGGTGAAGTGACCAATG  
ACCTTGTCATGCTGAAAGGCTGTGTGGTGGGAACCAAGAAGCGGGTGCTCACCTCCACGAGTCCTTGCTGGTGC  
AGATGAAACGGCAGGCTCTGGAGAAGATTGACCTTAAGTTCATTGACACCACCTCCAAGTTTGGCCATGGCTGCT  
TCCAGACCATGGAGCAGAAGAAAGCATTTCATGGGACCACTCAAGAAAGACGGAATTGCAAAGGAAGAAGGAGCTT  
AATGCCAGGAACAGATTTTCGCAGCTGGTGTGGTCTCAATAAAAGTTATTTTCCACTGGGAAAAAAAAA

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**FIGURE 2090**

GCGTGATGTCTCACAGAAAGTTTTCTGCTCCCAGACATGGGTCCCTCGGCTTCCTGCCTCAGAAGCGCAGCAGCA  
GGCATCGTGGGAAGGTGAAGAGCTTCCCTAAGGATGATCCGTCCAAGCCGGTCCACCTCACAGCCTTCCTGGGAT  
ACAAAGCTGGCATGACCCACATCATGAGGGCTCTGGAGAAGATTGACCTTAAGTTCATTGACACCACCTCCAAGT  
TTGGCCATGGCTGCTTCCAGACCATGGAGCAGAAGAAAGCATTTCATGGGACCACTCAAGAAAGACGGAATTGCAA  
AGGAAGAAGGAGCTTAATGCCAGGAACAGATTTTCGCAGCTGGTGTGGTCTCAATAAAAGTTATTTTCCACTG

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[illegible]

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**FIGURE 2092**

GTTCCGGCGCACGTAATCGCCGAGGGCACGTGCATGCCCCCTGGTTAAGAGTTGCAGGTAGCGGTAGCGATGGAC  
ACTCTGGATCGAGTAGTAAAGCCCCAAAACGAAAAGAGCCAAGAGATTCCTTGAGAAGAGAGAACCGAAACTCAAT  
GAAAATATTAAAAATGCCATGCTGATTAAAGGGGAAATGCAAATGCAACAGTGACAAAAGTACTTAAAGATGTG  
TATGCACTGAAAAAACCATACGGTGTACTATATAAAAAGAAAAATATTACAAGACCTTTTGAGGATCAGACATCA  
CTGGAATTCTTTTCAAAGAAGTCAGATTGTTCTTTATTCATGTTTGGCTCCCATATAAGAAGCGGCCAAATAAT  
CTAGTAATAGGTCGTATGTATGACTACCATGTGCTGGATATGATTGAATTAGGTATTGAGAATTTTGTCTCTCTA  
AAAGACATTAAGAACAGTAAATGTCTGAGGGAACAAAACCCATGCTGATATTTGCTGGCGATGATTCGATGTA  
ACAGAAGATTATAGAAGACTAAAAAGTCTTCTTATTGATTTCTTCAGAGGCCCCACAGTATCAAATATCCGCCTG  
GCTGGATTAGAGTATGTTCTGCACTTCACTGCACTGAATGGGAAGATTTACTTTTGAAGCTATAAGTTGCTGTTG  
AAGAAATCTGGTTGCAGAACACCACGGATTGAATTGGAAGAGATGGGACCCTCATTGGATCTGGTTCTGAGGAGG  
ACACACCTGGCATCGGATGACCTTTATAAATTATCTATGAAAATGCCAAAAGCTCTCAAGCCAAAGAAGAAGAAA  
AATATTTCCCATGATACTTTTGGTACAACCTTATGGAAGGATTCATATGCAGAAGCAAGACCTAAGCAAACCTACAA  
ACCAGGAAAAATGAAGGGGTTGAAGAAGCGACCTGCAGAAAGGATAACAGAAGACCACGAGAAAAAGTCAAAAAGA  
ATTAAAAAAAATTGATGGAACTTAGCCAGCCACTACTGTTTCATTGTGTTCTACTTAAGAGAATTATCAAGCGTC  
AATCCATTGAGATTTCTTATAAGATCTTATTATATATTTTATAACATGATAATTTTACGATATATTATTATGA  
ACAGTAATATACTAGTATTAAGTGTAAAGTAAGCCTTTTATTTGAGACATTACACCCTGGTGTGCCATTTTCTCT  
TGTGATATCCCCTGCCCTCCACAAATCTTCTTTCTCATTGGGTGGATGGATGGGTGAGGAGGGATCTCCATAAC  
CATTGGGATTTTTTTGAATTTCTGGCCTTAGCTAAAGAAAGCCACAGAAAGCCGACCCGAGGAGCTGTGTAAA  
CAATCTCAGTATGAATTACCTGGAAAGTTAACCTCCTCTCCCAACATGGATCTACATTCTGATTTTTATTTTCTA  
CTTTTATTTGCCTGAAATCCTACTCGTTGACATTTGAGATTTTAAGCTTTGTGGCTGAAAATATATAGATCTCT  
GAG

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**FIGURE 2093**

MDTIDRVVVKPKTKRAKRFLEKREPKNENIKNAMLIKGGNANATVTKVLKDVYALKKPYGVLYKKKNITRPFEDQ  
TSLEFFSKKSDCSLFMFGSHNKKRPNNLVIGRMYDYHVLDMIELGIENFVSLKDIKNSKCPEGTKPMLIFAGDDF  
DVTEDYRRLKSLIDFFRGPTVSNIRLAGLEYVLHFTALNGKIYFRSYKLLKKSGCRTPRIELEEMGPSLDLVL  
RRTHLASDDLYKLSMKMPKALKPKKKKNISHDTFGTTYGRIHMQQDLSKLQTRKMKGLKKRPAERITEDHEKKS  
KRIKKN

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**FIGURE 2094**

ATGGAACAGTACATCTGTAAAAGGACAAGTGATGGCATCTACATCATAAATCTGAAGAGGACCTGGGAGAAGCTT  
CTGCTGGCAGCTCATGCCATTGCTGCCATTGAAAACCCTGCAGATGTCAGTGTTATATCCTCCAGGAATATTGGC  
CAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGCTGGCCGCTTCACTCCTGGAACCTTC  
ACTAACCAGATCCAGGCAGCTTTCTGGGAGCCACGGCTTCTTGTTGGTTACTGACCCAGGGCTGACCACCAGCCT  
CTCAGGAGGCATCTTATGTTAACCTACCTACCATTGCTCTATTCTCCTTGCTATGTGGACATTGCCATCGCA  
TGCAACAACAAGGGAGCTCACTCGGTGGGTTTGATGTGGTGGACACCGGCTCGGGAAGTTCTGCGCATGCGTGGC  
ACCATTTCTGCGAACACCCGTGGGAGGTCATGCCTGATCTCTACTTCTACAGAGATCCTGAAGAGATTGAAAAA  
GAAGAGCAGGCTGCTGCTAAAAAAGCTGTGACCAAGAAAGAATTTAGGGTGAATGGACTGCTTCAGCTCCTGAG  
TTCAGTACTCAGCCTGAGGTTGCAGACTGGTCTGAAGGCATGCAGGCCACCGAATGGGTAAAAGCAATCACT  
GAATGGGTAGAAGCAACCGCTGAATGGTCTTAA



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**FIGURE 2095**

MEQYICKRTSDGIYIINLKRTWEKLLLAHAIAAIENPADVSVISSRNIGQRAVLKFAAATGATPIAGRFTPGTF  
TNQIQAAFWEPRLLVVTDPRADHQPLTEASYVNLPTIALFSLCYVDIAIACNNKGAHSVGLMWWT  
PAREVLRMRG  
TISCHEPWEVMPDLYFYRDPEEIEKEEQAAAKKAVTKKEFQGEWTASAPEFTATQPEVADWSEGMQATEWVKAIT  
EWVEATAEWS

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**FIGURE 2096**

ATGGCAAAGGAAGATAACAGAAGACCCTCCAGAGAGTGGAATCCTGAAAATCAAGGAACATTTCTGTATACTCAA  
GTGAATGGGAAAGTGGAAATATTTCTGAAGTGGGAAGGGATTTACAGATGCTGACAATACTTGGGAACCTGAAGAA  
AATTTAGATTGTCCAGAATTGATTGAAGCATTTCTTAGCTCTCAGAAAGCTGGCAAACAAAAAGATGACAGCAGT  
GGAGAATTGATGTTTCTCATGAAATGGAAAGATTGAGATGAGGCAGACTTGGTGCTGGCAAAGAAGCAAGTATG  
AAGTGTCCCTCAAATTGTAATTGCTTTTTATGAAGAGAGACTAATTGGCATTCTTGTCCAGAAGATGAAGCTCAA  
TAA

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**FIGURE 2097**

MAKEDNRRPSREWNPENQGTFLYTQVNGKVEYFLKWKGFTDADNTWEPEENLDCPELIEAFLSSQKAGKQKDDSS  
GELMFLMKWKDSDEADLVLAKEASMKCPQIVIAFYEEERLTWHSCPEDEAQ

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**FIGURE 2098**

CTCTTCCGGTTCTAGGCACTTCGGGAGCCGCGGCTTATGGTGCAGACATGGCCAAGTCCAAGAACCACACCACAC  
ACAACCAGTCCCGAAAAATGGCACAGAAATGGTATCAAGAAACCCCGATCACAAAGATACGAATCTCTTAAGGGGG  
TGGACCCCAAGTTCCTGAGGAACATGCGCTTTGCCAAGAAGCACAACAAAAAGGGCCTAAAGAAGATGCAGGCCA  
ACAATGCCAAGGCCATGAGTGCACGTGCCGAGGCTATCAAGGCCCTCGTAAAGCCCAAGGAGGTTAAGCCCAAGA  
TCCCAAAGGGAGTCAGCTGCAAGCTCGATCGACATGCCTACGTTGCCCACCCCAAGCTTGGGAAGCGTGCTCTTG  
CCCGTATTGCCAAGGGGCTCAGGCTGTGCCGGCCAAAGGCCAAGGCCAAGGCCAAGGATCAAA<sup>1</sup>CCAAGGCCCAGG  
CTGCAGCTCCAGCTTCAGTTCAGCTCAGGCTCCCAAAGGTACCCAGGCCCCTACAAAGGCTTCAGAGTAGATAT  
CTCTGCCAACATGAGGACAGAAGGACTGGTGCGACCCCCACCCCCACCCCTGGGCTATCATCTGCATGGGGCTG  
GGGTCCTCCTGTGCTATTTGTACAAATAAACCTGAGGCAGG

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**FIGURE 2099**

ACAAAAAGCTTTTACGAGGTATCAGCACITTTTCTTTCATTAGGGGAAGGCGTGAGGAAAGTACCAAACAGCAG  
CGGAGTTTTTAACTTTTAAATAGACAGGTCTGAGTGCCTGAACTTGCCTTTTTCACTTTTACTTCATCCTCCAAGGAG  
TTCAATCACTTGGCGTGACTTCACTACTTTTTAAGCAAAAGAGTGGTGCCAGGCAACATGGGTGACTGGAGCGCC  
TTAGGCAAACTCCTTGACAAGGTTCAAGCCTACTCAACTGCTGGAGGGAAGGTGTGGCTGTCAGTACTTTTTATT  
TTCCGAATCCTGCTGCTGGGGACAGCGGTTGAGTCAGCCTGGGGAGATGAGCAGTCTGCCTTTCGTTGTAACT  
CAGCAACCTGGTTGTGAAAATGTCTGCTATGACAAGTCTTCCCAATCTCTCATGTGCGCTTCTGGGTCCTGCAG  
ATCATATTTGTGTCTGTACCCACACTCTTGTACCTGGCTCATGTGTTCTATGTGATGCGAAAGGAAGAGAACTG  
AACAAGAAAGAGGAAGAACTCAAGGTTGCCCAAAGTATGGTGTCAATGTGGACATGCACTTGAAGCAGATTGAG  
ATAAAGAAGTTCAAGTACGGTATTGAAGAGCATGGTAAGGTGAAAATGCGAGGGGGGTTGCTGCGAACCTACATC  
ATCAGTATCCTCTTCAAGTCTATCTTTGAGGTGGCCTTCTTGCTGATCCAGTGGTACATCTATGGATTACAGCTTG  
AGTGCTGTTTACACTTGCAAAAGAGATCCCTGCCACATCAGGTGGACTGTTTCTCTCTCGCCCCACGGAGAAA  
ACCATCTTCATCATCTTCATGCTGGTGGTGTCTTGGTGTCCCTGGCCTTGAATATCATTGAACTCTTCTATGTT  
TTCTTCAAGGGCGTTAAGGATCGGGTTAAGGGAAAGAGCGACCCCTTACCATGCGACCAGTGGTGCCTGAGCCCT  
GCCAAAGACTGTGGGTCTCAAAAATATGCTTATTTCAATGGCTGCTCCTCACCAACCGCTCCCTCTCGCCTATG  
TCTCCTCCTGGGTACAAGCTGGTTACTGGCGACAGAAACAATTCTTCTTGCCGCAATTACAACAAGCAAGCAAGT  
GAGCAAACTGGGCTAATTACAGTGCAGAACAAATCGAATGGGGCAGGCGGGAAGCACCATCTCTAACTCCCAT  
GCACAGCCTTTTGATTTCCCGCATGATAACCAGAATTCTAAAAAACTAGCTGCTGGACATGAATTACAGCCACTA  
GCCATTGTGGACCAGCGACCTTCAAGCAGAGCCAGCAGTCGTGCCAGCAGCAGACCTCGGCCTGATGACCTGGAG  
ATCTAGATACAGGCTTGAAAGCATCAAGATTCCACTCAATTGTGGAGAAGAAAAAGGTGCTGTAGAAAGTGCAC  
CAGGTGTTAATTTTGATCCGGTGGAGGTGGTACTCAACAGCCTTATTCATGAGGCTTAGAAAACACAAAGACATT  
AGAATACCTAGGTTCACTGGGGGTGTATGGGGTAGATGGGTGGAGAGGGAGGGGATAAGAGAGGTGCATGTTGGT  
ATTTAAAGTAGTGGATTCAAAGAACTTAGATTATAAATAAGAGTTCATTAGGTGATACATAGATAAGGGCTTTT  
TCTCCCCGCAACACCCCTAAGAATGGTCTGTGTATGTGAATGAGCGGGTGGTAATTGTGGCTAAATATTTTG  
TTTTACCAAGAACTGAAATAATTCTGGCCAGGAATAAATACTTCTGAACATCTTAGGTCTTTTCAACAAGAAA  
AAGACAGAGGATTGTCCTTAAGTCCCTGCTAAACATTCCATTGTTAAAATTTGCACTTTGAAGGTAAGCTTTCT  
AGGCCTGACCCTCCAGGTGTCAATGGACTTGTGCTACTATATTTTTTTTATTCTTGGTATCAGTTTAAATTCAGA  
CAAGGCCCACAGAATAAGATTTTCCATGCATTTGCAAATACGTATATTCTTTTCCATCCACTTGCACAATATCA  
TTACCATCACTTTTTTTCATCATTCCTCAGCTACTACTCACATTCATTTAATGGTTTCTGTAAACATTTTTAAGACA  
GTTGGGATGTCACTTAACATTTTTTTTTTTTGGAGCTAAAGTCAGGGAATCAAGCCATGCTTAATATTTAACAATC  
ACTTATATGTGTGTCGAAGAGTTTGTGTTTGTGTCATGTATTGGTACAAGCAGATACAGTATAAACTCACAAAC  
ACAGATTTGAAAATAATGCACATATGGTGTTCAAATTTGAACCTTCTCATGGATTTTTGTGGTGTGGGCAATA  
TGGTGTTTACATTATATAATTCCTGCTGTGGCAAGTAAAGCACACTTTTTTTTCTCCTAAAATGTTTTTCCCTG  
TGTATCCTATTATGGATACTGGTTTTGTAAATTATGATTCTTTATTTTCTCTCCTTTTTTTAGGATATAGCAGTA  
ATGCTATTACTGAAATGAATTTCTTTTTCTGAAATGTAATCATTGATGCTTGAATGATAGAATTTTAGTACTGT  
AAACAGGCTTTAGTCATTAATGTGAGAGACTTAGAAAAATGCTTAGAGTGGACTATTAAATGTGCCTAAATGAA  
TTTTGCAGTAACTGGTATTCTTGGGTTTTCTACTTAAATACACAGTAATTCAGAACTTGTATTCTATTATGAGTT  
TAGCAGTCTTTTGGAGTGACCAGCAACTTTGATGTTTGCACAAAGATTTTATTGGAATGCAAGAGAGGTTGAAA  
GAGGATTACAGTAGTACACATACAACTAATTTATTTGAACTATATGTTGAAGACATCTACCAGTTTCTCCAAATGC  
CTTTTTTAAAACTCATCACAGAAGATTGGTGAATATGCTGAGTATGACACTTTTCTTCTTGCATGCATGTCAGCT  
ACATAAACAGTTTTGTACAATGAAAATTACTAATTTGTTTGACATTCCATGTTAAACTACGGTCATGTTTCACTT  
CATTGCATGTAATGTAGACCTAGTCCATCAGATCATGTGTTCTGGAGAGTGTCTTTATTCAATAAAGTTTTAAT  
TTAGTATAAACAT

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**FIGURE 2100**

MGDWSALGKLLDKVQAYSTAGGKVWLSVLFIFRILLLLGTAVESAWGDEQSAFRCNTQQPGCENVCYDKSFPISHV  
RFWVLQIIFVSVPTLLYLAHVIFYVMRKEEKLNKKEEELKVAQTDGVNNDMHLKQIEIKKFKYGIEEHGKVKMRGG  
LLRTYIISILFKSIFEVAFLLIQWYIYGFSLSAVYTCKRDPCPHQVDCFLSRPTEKTIFIIFMLVVSLVSLALNI  
IELFYVFFKGVKDRVKGKSDPYHATSGALSPAKDCGSQKYAYFNGCSSPTAPLSPMSPPGYKLVTGDRNNSSCRN  
YNKQASEQNWANYSAEQNRMGQAGSTISNSHAQPFDFPDDNQNSKKLAAGHELQPLAIVDQRPSSRASSRASSRP  
RPDDLEI

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**FIGURE 2101**

GCTGTGCGTCCGGAAGTGTCTCGCAGATAGTAAATAATCTCGGAAAGGCGAGAAAGAAGCTGTCTCCATCTTGTC  
TGATACCGCTGCTCTTGTGACGTTGTGGAGATGGGGAGCGTCCTGGGGCTGTGCTCCATGGCGAGCTGGATACCA  
TGTTTGTGTGGAAGTGCCCCGTGTTTGCTATGCCGATGCTGTCTAGTGGAACAACCTCCACTGTAACCTAGATTG  
ATCTATGCACCTTTCTTGCTTGTGGAGTATGTGTAGCTTGTGTAATGTTGATACCAGGAATGGAAGAACAACCTG  
AATAAGATTCCCTGGATTTTGTGAGAATGAGAAAGGTGTTGTCCCTTGTAACATTTTGGTTGGCTATAAAGCTGTA  
TATCGTTTGTGCTTTGGTTTGGCTATGTTCTATCTTCTCTCTTTACTAATGATCAAAGTGAAGAGTAGCAGT  
GATCCTAGAGCTGCAGTGCACAATGGATTTTGGTTCCTTTAAATTTGCTGCAGCAATTGCAATTATTATTGGGGCA  
TTCTTCATTCCAGAAGGAACCTTTACAACCTGTGTGGTTTTATGTAGGCATGGCAGGTGCCTTTTGTTCATCCTC  
ATACAACCTAGTCTTACTTATTGATTTTGCACATTTCATGGAATGAATCGTGGGTGAAAAATGGAAGAAGGGAAC  
TCGAGATGTTGGTATGCAGCCTTGTTATCAGCTACAGCTCTGAATTATCTGCTGTCTTTAGTTGCTATCGTCCTG  
TTCTTTGTCTACTACACTCATCCAGCCAGTTGTTTCAGAAAACAAGGCGTTCATCAGTGTCAACATGCTCCTCTGC  
GTTGGTGCTTCTGTAATGTCCTATACTGCCAAAAATCCAAGAATCACAACCAAGATCTGGTTTGTACAGTCTTCA  
GTAATTACAGTCTACACAATGTATTTGACATGGTCAGCTATGACCAATGAACCAGAAAACAATTGCAACCCAAAGT  
CTACTAAGCATAATTGGCTACAATACAACAAGCACTGTCCCAAAGGAAGGGCAGTCAGTCCAGTGGTGGCATGCT  
CAAGGAATTATAGGACTAATTCTCTTTTGTGTGTGTATTTTATTCCAGCATCCGTACTTCAAACAATAGTCAG  
GTTAATAAACTGACTCTAACAAGTGATGAATCTACATTAATAGAAGATGGTGGAGCTAGAAGTGATGGATCACTG  
GAGGATGGGGACGATGTTACCGAGCTGTAGATAATGAAAGGGATGGTGTCACTTACAGTTATTCTTCTTTTAC  
TTCATGCTTTTCCCTGGCTTCACCTTTATATCATGATGACCCTTACCAACTGGTACAGGTATGAACCTCTCGTGAG  
ATGAAAAGTCAGTGGACAGCTGTCTGGGTGAAAATCTCTTCCAGTTGGATTGGCATCGTGCTGTATGTTTGGACA  
CTCGTGGCACCCTTGTCTTACAAATCGTGATTTTGAAGTGAGACTTCTAGCATGAAAGTCCCACTTTGAT  
TATTGCTTATTTGAAAACAGTATTCCCAACTTTTGTAAAGTTGTGTATGTTTGTCTCCCATGTAACCTCTCCA  
GTGTTCTGGCATGAATTAGATTTTACTGCTTGTCAATTTTGTATTTTCTTACCAAGTGCATTGATATGTGAAGTA  
GAATGAATTGCAGAGGAAAGTTTTATGAATATGGTGTAGAGTTAGTAAAAGTGGCCATTATTGGGCTTATTCTCT  
GCTCTATAGTTGTGAAATGAAGAGTAAAACAATTTGTTTGACTATTTTAAAATTATATTAGACCTTAAGCTGT  
TTTAGCAAGCATTAAGCAAATGTATGGCTGCCTTTTGAATATTTGATGTGTGCTGGCAGGATACTGCAAAG  
AACATGGTTTATTTTAAAATTTATAACAAGTCACTTAAATGCCAGTTGTCTGAAAAATCTTATAAGGTTTTACC  
CTTGATACGGAATTTACACAGGTAGGGAGTGTTTAGTGGACAATAGTGTAGGTTATGGATGGAGGTGTCGGTACT  
AAATTGAATAACGAGTAAATAATCTTACTTGGGTAGAGATGGCCTTTGCCAACAAAGTGAAGTGTTTTGGTTGTT  
TTAAACTCATGAAGTATGGGTTCAAGTGGAAATGTTTGGAACTCTGAAGGATTTAGACAAGTTTTGAAAAGGATA  
ATCATGGGTTAGAAGGAAGTGTGTGAAAGTCACTTTGAAAGTTAGTTTGGGCCAGCACGGTAGCTCACCTTGT  
AATCCCAGCACTTTGGGAGGCTGAGGTGGGTAGATTACTTGAGCCAGGAATTCAAGACCAGCCTGGGCAACATG  
GTGAAACCTGTTTCTATAAAAAATAATCTGGGCTTTGTAGCATATGCCTGTGGTCCCAGCTACTGAGGAGGCTG  
AGGTGGGAGGATTGCTTGAGCCCAGGAGGCAGAGGTTGCAGTGAGCCAAGGTCACGTCACTGCCTAGCCTGG  
GCAACAGAGTAAGACAAAAAATATATATATATTGAAAATCAAAGGAGGCAAAATTTTGACAGGGAAGGAAGTAA  
CTGCAAAACACTAGGCTTTAGTAGGTACTTATATAAAATCTAGTCCAGTTCTCTCATTTAAAAAATGAAGACAC  
TGAAATACAGACTTAAATAGCTCAGATAGCTAATTAGGAAATTTCAAGTTGGCCAATAATAGCATTCTCTCTGAC  
ATTTAAAAATAATTTCTATTCAAATACATGCATAATTGATTTTACACCTCATTACTGGTGGATAATTTATGTGA  
TGTGGATTGCTGGTGTCCAGCATGACCATAAACAGGTGAGAAGAATGATGGAATGTTTTAGAATAAACTCCTGC  
TTATAGTATACTACACAGTTCAAAGATGTTTAAAATGCTTTTGTATTTACTGCCATGTAATTGAAATATATAGA  
TTATTGTAACCTTTCAACCTGAAAATCAAGCAGTATGAGAGTTAGTTATTTGTATGTGTCACTAGTGTCTAATG  
AAGCTTTTAAAATCTACAATTTCTTCTTTAAAAATATTTATTAATGTGAATGGAATATAACAATTCAGCTTAATT  
CCCCAACCTTATTCTGTGTGTAGACATTGTATTCCACAATTTGAATGGCTGTGTTTTACCTCTAAATAAATGAA  
TTCAGAG

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**FIGURE 2102**

MGSVLGLCSMASWIPCLCGSAPCLLCRCCPSGNNSTVTRLIYALFLLVGVCVACVMLIPGMEEQLNKIPGFCENE  
KGVVPCNILVGYKAVYRLCFGLAMFYLLLSLLMIKVKSSSDPRAAVHNGFWFFKFAAAIAIIIGAFFIPEGTFIT  
VWFYVGMAGAFCFILIQLVLLIDFAHSWNE SWVEKMEEGNSRCWYAALLSATALNYLLSLVAIVLFFVYYTHPAS  
CSENKAFISVNMLLCVGASVMSILPKIQESQPRSGLLQSSVITVYTMYLTSAMTNEPETNCNPSLLSIIGYNTT  
STVPKEGQSVQWWHAQGIIGLILFLLCVFYSSIRTSNNSQVNKLTLTSDESTLIEDGGARSDGSLEDGDDVHRAV  
DNERDGVITYSYFFHFMLFLASLYIMMTLTNWYRYEPSREMKSQWTAVVVKISSWIGIVLYVWTLVAPLVLTNR  
DFD



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**FIGURE 2103**

GGGGACCCCTCTCCTGACGCTGCGCTCTCTGCGAGGCAACCTTTTCACGTCCATCGCTTGTTCATCTTAGGATCCCCA  
TGTTATTTTAGCCAGATTGGCTAGTTCTGGGGAGGCAGCATGGTGGGACGATTCTGTCCCGAGTCCCCGCCAGG  
CTTTGTTTCGGGTCGCCGCTACCAGCGCGGTCTCCCTAGATCCTCCATCCGGGGAACCTCGCCCCGGGTGCGGGTA  
CCCGGGGCCGCGCAGCGCTGCCTCGAGGGTGTATGGATGCACCGCGCCGGCGAGAGAGACCGGGGGCTGGGCCTG  
GGAGACCCTAGCGGGGGCGGGGGCGAAGAAGAGATTTATTCCAGTGAAACAACAACCTGGAACCTCAAGTAACCTC  
TCCCAGAGTACTTCCAACCTCTGGGTTGGCCCCAAATCCAACCTAATGCCACCACCAAGGCGGCTGGTGGTGGCCTG  
CAGTCAACAGCCAGTCTCTTCGTGGTCTCACTCTCTCTCTGTCATCTCTACTCTTAAGAGACTCAGGCCAAGAAA  
CGTCTTCTAAATTTCCCATCTTCTAAACCAATCCAATGGCGTCTGGAAGTCCAATGTGGCAAGGAAAAACAG  
GTCTTCATCGAATCTACTAATTCACACCTTTTATTGACACAGAAAATGTTGAGAATCCCAAAATTTGATTGATTT  
GAAGAACATGTGAGAGGTTTGAAGTATGATGGATGCCAATATTAAATCTGCTGGAGTTTCATGTACAAGATGAA  
GGAGAGGCAACATCCAAAATAGTTAAGACATGATTTCCCTGAATGTGGCTTGAGAAAATATGGACACTTAATACTA  
CCTTGAAAATAAGAATAGAAAATAAAGGATGGGATTGTGGAATGGAGATTGAGTTTTTCAATTTGGTTTCAATTAATCT  
ATAAGGCCATAAAACAGGTAATATAAAAAGCTTCCATGATTTCTATTTATATGTACATGAGAAGGAACTTCCAGGT  
GTTACTGTAATTCCTCAACGTATTGTTTCGACAGCACTAATTTAATGCCGATATACTCTAGATGAAGTTTTACAT  
TGTTGAGCTATTGCTGTTCTCTTGGGAACCTGAACCTCACTTTCTCCTGAGGCTTTGGATTGTGACATTGCATTTGA  
CCTTTTATGTAGTAATTGACATGTGCCAGGGCAATGATGAATGAGAATCTACCCCCAGATCCAAGCATCTTGAGC  
AACTCTTGATTATCCATATTGAGTCAAATGGTAGGCATTTCTATCACCTGTTTCCATTCAACAAGAGCACTACA  
TTCATTTAGCTAAACGGATTCCAAAGAGTAGAATTGCATTGACCACGACTAATTTCAAAATGCTTTTTATTATTA  
TTATTTTTTTAGACAGTCTCACTTTGTGCGCCAGGCCGGAGTGCAGTGGTGGATCTCAGATCAGTGTACCATTTG  
CCTCCCGGGCTCAAGCGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCACCTGCCACCATGCCCG  
GCTAATTTTTTGTAATTTTAGTAGAGACAGGGTTTACCATGTTGCCAGGCTGGTTTCGAACTCCTGACCTCAGG  
TGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCTTGAGCCCCCGCGCCAGCCATCAAAATGCTT  
TTTATTTCTGCATATGTTGAATACTTTTTACAATTTAAAAAAATGATCTGTTTTGAAGGCAAAATTGCAAATCTT  
GAAATTAAGAAGGCAAAAATGTAAAGGAGTCAAACTATAAATCAAGTATTTGGGAAGTGAAGACTGGAAGCTAA  
TTTGCAATTAATTCACAACTTTTATACTCTTTCTGTATATACATTTTTTTCTTTAAAAAACAACTATGGATCA  
GAATAGCCACATTTAGAACACTTTTTGTTATCAGTCAATATTTTAGATAGTTAGAACCTGGTCCTAAGCCTAAA  
AGTGGGCTTGATTCTGCAGTAAATCTTTTACAACCTGCCTCGACACACATAAACCTTTTTAAAAATAGACACTCCC  
CGAAGTCTTTTGTTTCGCATGGTCACACACTGATGCTTAGATGTTCCAGTAATCTAATATGGCCACAGTAGTCTTG  
ATGACCAAAGTCCTTTTTTCCATCTTTAGAAAACCTACATGGGAACAAACAGATCGAACAGTTTTGAAGCTACTG  
TGTGTGTGAATGAACACTCTTGCTTTATTCAGAATGCTGTACATCTATTTTGGATTGTATATTGTGTTTGTGTA  
TTTACGCTTTGATTCATAGTAACCTTCTTATGGAATTGATTGTCATTGAACACAACTGTAAATAAAAAGAAA

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**FIGURE 2104**

CAGAAGCGGCTAGTGGCGGCTGCCTGCGTCCCCAACCCCTCCGCGCAGCGCTCGCGACACGCGTGCCAGGAGTG  
GGAGCGAGCGGCGGGGCCAGCTGCGTTCTGAGCCTGGGCGCAGCTGCCATCTGCTCTGGGAAGCACCAGGGTGTC  
CCCGCCGCCCTCAGCTCGAAGTCAGCCACCATGGAGGCGCAGGCACAAGGTTTGTGGAGACTGAACCGTTGCAA  
GGAACAGACGAAGATGCAGTAGCCAGTGCTGACTTCTCTAGCATGCTCTCTGAGGAGGAAAAGGAAGAGTTAAAA  
GCAGAGTTAGTTCAGCTAGAAGACGAAATTACAACACTACGACAAGTTTTGTCAGCGAAAAGAAAGGCATCTAGTT  
GAGATAAAACAAAACTCGGCATGAACCTGATGAATGAATTAACAGAACTTCAGCAAAAGCTGGCATGACATG  
CAGACTACCACTGCCTACAAGAAAACACATGAAACCCTGAGTCACGCAGGGCAAAAGGCAACTGCAGCTTTTCAGC  
AACGTTGGAACGGCCATCAGCAAGAAGTTCGGAGACATGAGTTACTCCATTTCGCCATTCCATAAGTATGCCTGCT  
ATGAGGAATTCTCCTACTTTCAAATCATTTGAGGAGAGGGTTGAGACAACCTGTCACAAGCCTCAAGACGAAAGTA  
GGCGGTACGAACCCTAATGGAGGCAGTTTTGAGGAGGTCTCAGCTCCACGGCCCATGCCAGTGCCCGAGAGCTTG  
GCAGGAGGCTCCCGGCGGACCAAGGAGGAGGAGCTGCAGTGCTTAAGTCCAGCCAGCGTGCAGCTGCATCCAGAAA  
CCGGCCACTACCCAGCCCATCTCTGCCTGTGCTTATCCAGATAAGAAGACCAAAATCCCGCTGGGAAAAACCCAG  
GCCTTGACATTGTTATTCAAATGGCCCCCTCCAGAAAGTTTTAATGATTTCCATTTGTATTTGTGTTGATGATGGAC  
CACTTGACCATCACATTTTCAGTATTCATAGATGACTGTCACATTTTAAAATGTTCCCACTTGAGCAGGTACACAA  
CTGGTCATAATTCCTGTCTGTGTAATTCGATGTATATTTTTCCAAACATGTAGCTATTGTTTGCTTTGATTTTTG  
CTTGGCCTCCTTTATGATGTGCATGTCCTTGAAGGCTGAATGAACAGTCCCTTTTCAGTTCAGCAGATCAACAGGA  
TGGAGCTCTTCATGACTGCTCCAGCAATAGGATGATTTACTATAAATTTTCATCCAACCTACTTGTGATCTCTCTC  
ACCTACATCAATTATGTATGTTAATTCAGCAATTAAAAGAATTGATTTT

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**FIGURE 2105**

MEAAQGLLETEPLQGTDEDAVASADFSSMLSEEEKEELKAELVQLEDEITTLRQVLSAKERHLVEIKQLGMNL  
MNELKQNFSSKSWHDMQTTAYKKTHETLSHAGQKATAAFSNVGTAISKKFGDMSYSIRHSISMPAMRNSPTFKSF  
EERVETTVTSLKTKVGGTNPNGGSFEEVLSSTAHASQAQSLAGGSRRITKEEELQC

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**FIGURE 2106**

GGAGTTGGAAGGGGAGGAGGAAGAGGGGGAGCAGGAAGAGGGGGCAGAAGGAAGAAGAAGAGGGGGAGGAGAAAGA  
GATAGAAGAGTAAGAGGAGGGGGAAGAAAGACAAGGGGAAGGGGAGGAGGAGGAGGACGGGGAGGAGCTTCGCCG  
CGGCCTGCTCCGCCCAGCCGGGGTCGGTGGCCGCATGGCTTCGGTCTCCTCTGCGACCTTCTCGGGCCACGGGGC  
TCGGTCCCTACTGCAGTTCTTGC GGCTGGTAGGGCAGCTCAAGAGAGTCCCACGAAC TGGCTGGGTATACAGAAA  
TGTC CAGAGGCCGAGAGCGTTTCAGATCACATGTACCGGATGGCAGTTATGGCTATGGTGATCAAAGATGACCG  
TCTTAACAAAGACCGATGTGTACGCCTAGCCCTGGTTTCATGATATGGCAGAATGCATCGTTGGGGACATAGCACC  
AGCAGATAACATCCCCAAGAAGAAAAACATAGGCGAGAAGAGGAAGCTATGAAGCAGATAACCCAGCTCCTACC  
AGAGGACCTCAGAAAGGAGCTCTATGAACTTTGGGAAGAGTACGAGACCCAATCTAGTGCAGAAGCCAAATTTGT  
GAAGCAGCTAGACCAATGTGAAATGATTCTTCAAGCATCTGAATATGAAGACCTTGAACACAAACCTGGGAGACT  
GCAAGACTTCTATGATTCCACAGCAGGAAAATTCAATCACCCCTGAGATAGTCCAGCTTGTTTTCTGAACTTGAGGC  
AGAAAGAAGCACTAACATAGCTGCAGCTGCCAGTGAGCCACACTCCTGAGACACTCTCTAAATTGCTGCACTCCT  
GTAACAAACATTATTTTTCCATTTTCATTGTATTGTGTTTTGCCATTGTTGGTCTGTTGATTTCCCTAGATGTGAG  
TCTGTTTGTTTTCAATTGTCTGAACTTCAGCAAGAAATGTGATACAACCTGGGCACTAAAAGAAGCCACAGAACA  
GGAAGCGGTCATGAAAGTGCCATGGATGAACACTGGAGGTGGCAGTGCCTGTTTATGAACTAAATAAATAAATAT  
TAAACACCTAAATATTAGAATATTTATTGGAGATTTAAAAATCATCTTATTCTGACTTAATTACCGATATCCCCG  
AAGGCTAGGTTTCATTGAATAATAGAAAATTTTCATTATGATTGCTTTTAAGAACAGATTCTTCAGCTGATTTAGTG  
ATAAGAATCCAGAAAAGAAAATGTACTAGTGATGTATTCTCTCCCCAGATGAAATTGCTGCCTTATTCAGATTTA  
CTCTCTTGAGCCAGATTTTGAATTTCACTGCAGACTGCTTCAGACTTCTAATCATAGGCTTGTAACCTACTAAT  
AGGCTCTGCCCCCTCTTCCCAATACTTTTTGTCAATTAGAGATATAAACCGGGGCATATAAAAATGCAACTTGAT  
TCCTTTGTATATTTTTCCCTGTCTGACTTATAAATCTTGAGACCTTTATTGTAAAAGCATGTATCATCAGGTGAG  
AAATATAAATAGGAAC TGGGGTCATTGAGCCTCAGGTAGGGAATATATCAACCGATTTCTTCCTCTCTTTTCCC  
TTTTATAGGATAAATAATCC

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**FIGURE 2107**

GACGGCAGCCGCCCGGCCGACAGCCCCGAGACGACAGCCCGGCGCGTCCCGGTCCCCACCTCCGACCACCGCCA  
GCGCTCCAGGCCCCGCGCTCCCCGCTCGCCGCCACCGCGCCCTCCGCTCCGCCCCGAGTGCCAACCATGACCGC  
CGCCAGTATGGGCCCCGTCCGCGTCGCCTTCGTGGTCCTCCTCGCCCTCTGCAGCCGGCCGGCCGTGCGGCCAGAA  
CTGCAGCGGGCCGTGCCGGTGCCCGGACGAGCCGGCGCCGCGCTGCCCGGGCGGGCGTGAGCCTCGTGCTGGACGG  
CTGCGGCTGCTGCCGCGTCTGCGCCAAGCAGCTGGGCGAGCTGTGCACCGAGCGCGACCCATGCGACCCGCACAA  
GGGCTATTCTGTCACTTCGGCTCCCCGGCCAACCGCAAGATCGGCGTGTGCACCGCCAAAGATGGTGCTCCCTG  
CATCTTCGGTGGTACGGTGTACCGCAGCGGAGAGTCCCTTCAGAGCAGCTGCAAGTACCAGTGACGTGCCTGGA  
CGGGGCGGTGGGCTGCATGCCCCCTGTGCAGCATGGACGTTCTGCTGCCAGCCCTGACTGCCCCCTTCCCGAGGAG  
GGTCAAGCTGCCCGGGAAATGCTGCGAGGAGTGGGTGTGTGACGAGCCCAAGGACCAAAACCGTGGTTGGGCCTGC  
CCTCGCGGCTTACCGACTGGAAGACACGTTTGGCCAGACCCAACCTATGATTAGAGCCAACCTGCCTGGTCCAGAC  
CACAGAGTGGAGCGCCTGTTCCAAGACCTGTGGGATGGGCATCTCCACCCGGGTTACCAATGACAACGCCTCCTG  
CAGGCTAGAGAAGCAGAGCCGCTGTGCATGGTCAGGCCCTTGCGAAGCTGACCTGGAAGAGAACATTAAGAAGGG  
CAAAAAGTGATCCGTACTCCCAAAATCTCCAAGCCTATCAAGTTTGAGCTTTCTGGCTGCACCAGCATGAAGAC  
ATACCGAGCTAAATCTGTGGAGTATGTACCGACGGCCGATGTGTGACCCCCACAGAACCACCACCCTGCCGGT  
GGAGTTCAAGTGCCCTGACGGCGAGGTCATGAAGAAGAACATGATGTTTCATCAAGACCTGTGCCTGCCATTACAA  
CTGTCCCGGAGACAATGACATCTTTGAATCGCTGTACTACAGGAAGATGTACGGAGACATGGCATGAAGCCAGAG  
AGTGAGAGACATTAACCTATTAGACTGGAACCTGAACTGATTACATCTCATTTCCTGTAATAATGATTTTCAGT  
AGCACAAAGTTATTTAAATCTGTTTTTCTAACTGGGGGAAAAGATTCCCACCCAATTCAAAACATTGTGCCATGTC  
AAACAAATAGTCTATCAACCCAGACACTGGTTTTGAAGAATGTTAAGACTTGACAGTGGAACACATTAGTACAC  
AGCACCAGAAATGTATATTAAGGTGTGGCTTTAGGAGCAGTGGGAGGGTACCAGCAGAAAGGTTAGTATCATCAGA  
TAGCATCTTATACGAGTAATATGCCTGCTATTTGAAGTGTAATTGAGAAGGAAAATTTTAGCGTGCTCACTGACC  
TGCCTGTAGCCCCAGTGACAGCTAGGATGTGCATTCTCCAGCCATCAAGAGACTGAGTCAAGTTGTTTCCTTAAGT  
CAGAACAGCAGACTCAGCTCTGACATTCTGATTGGAATGACACTGTTTCAGGAATCGGAATCCTGTGATTAGACT  
GGACAGCTTGTGGCAAGTGAATTTGCCTGTAAACAAGCCAGATTTTTTAAATTTATATTGTAAATATTGTGTGTG  
TGTGTGTGTGTATATATATATATATGTACAGTTATCTAAGTTAATTTAAAGTTGTTTGTGCCTTTTTATTTTT  
GTTTTTAATGCTTTGATATTTCAATGTTAGCCTCAATTTCTGAACACCATAGGTAGAATGTAAAGCTTGTCTGAT  
CGTTCAAAGCATGAAATGGATACTTATATGGAATTTCTGCTCAGATAGAATGACAGTCCGTCAAAACAGATTGTT  
TGCAAAGGGGAGGCATCAGTGTCTTGGCAGGCTGATTTCTAGGTAGGAAATGTGGTAGCCTCACTTTTAATGAA  
CAAATGGCCTTTATTAAAACTGAGTGACTCTATATAGCTGATCAGTTTTTTTACCTGGAAGCATTGTTTCTAC  
TTTGATATGACTGTTTTTCGGACAGTTTATTTGTTGAGAGTGTGACCAAAAGTTACATGTTTGCACCTTTCTAGT  
TGAAATAAAGTGTATATTTTTTCTATAAA

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**FIGURE 2108**

CACTGCTGACATAACTCCCTTGGTCTTCAATTTAATAGTTGTTAAGTTTTTGCCACATTGCATATGCCTTTTCAT  
TTATAATTTATTTACCCTGCTTGAAGTTAGTTTTGGGAATTCGTAAATTTAAAGGTGTGTGTATTCTGTTTGCATC  
TCCCTGTCACTGTGACACACCTAGATGTGTGTTACTTCAATTTAAATTTCTCAAATTTAATTTTGATTGCTTCAG  
CAGGGAAAATATTCTCAATAATGTAAAATAATTAAGGTCTATACATGGGTGTATTCTGTTTCTGGTTTCAACAGCA  
CAAAGTGTCTTTTCATTTTTTTGTTGGTTTTCTTTTAAGATCTTTTTTACCCTGAAGTCGGTGAATACTTTTCTAG  
TTTATTTGATACTCTTTCTGTGTATATATTAAGCTTTTGCTGTAGATTGCCTAGTAAAATTACTAAGGATAGGTT  
GTTTTTACATATGGTCTATTTAAGTCTGATGTTTACGGGGGAAAGTGTAGTTACTAAAAATGTTTAAACATAATTT  
GGAAGAAGAGTATGAACAACCAATACCAATACCTATTGCGTTTTGGATTCTTAAGACCCAGTTTTGTTATTCCACT  
AAACTAGTTATCTTAACCATAICATCTGGTTTTGTGGGCCATTATTTACCTTCCCTTATGTCTTATAGAATAATG  
GTTAATATTTTTAGGTCAAAATTACTTTTTGGAAAGTAACTTTCCCACTAATACTGTTTTTGAGCACCTGACAAA  
ATTTAGTGTTTACCTTGCCTGCCATTTTGTGTCTATCTTCAATTAAGCAATTGGAGGTTTGCCAGTTATCTC  
ACTTCCCTTTTTAAATCAATGTTGTTTTAATGCACTAATCTGAATCTGTAAAGAGGATTATCTTAGTTTATACT  
TTGTATTTTATAATGTTCTTGTATAGCAGCTCGGTACTGAAGGCGGTGTTTAACTTGGCAAGCTCTGAGACTTCA  
AATGGGAACAAATAGTAAGTAGCTAAGTAAACCACATCTTTGCAACCAAAATAAAGATGAGTTAAAAGGTATCTG  
GTTAGGCTATTTTCATGAGGACTATGCTCTGGTGGGACCACAGGTCACCTGATACTTAGTGTGTGCTGCCTGAA  
ACCTCAGCATGGAGACATCACCACATGCACTGTGGCCATTGAGCATCTTTCTGGAGCACCAGTTCACTCCAGGTT  
TTTATTTTAGGGTGTCTGATGATTTTACCTACTTTGTGCACTGGTAGAAGTTGCTTTGCATATCAGAAAACTCC  
ATTTTTTCCACAAAAGGGATTACAGAAAACCTTTTTGTGAGTGAGTGATTGGAACCTTAGAGACTCCTGTTGCCA  
GAATCAGACTGCCCTAGAACAGAATGGACAATGCAGGGAGGAGAATTCACACAAACAGCACCTGTTCTGAGGCCT  
GTGCCAGCCCACCAGGCCTGCTCAAATGTGGTCTTTACTTCAAGTGCACAGAGGCACATGAGGTTTCTGGTGATA  
AACCAGCGTCTTACCCTGTTTTTAAAGTCCCATCCCCATGGCTTTCACAATCAGTTCCGTTTTTTTTGCTGTACT  
TGATAAAATGTTTATTCTCATAACAGGTCAAGTACATTTACTTCTATTACAGTGAGTACCAATAACAACAAAAG  
CGCTTACAAATTTGGGGGGCGTGATTTTAGTACCTTTATTTGAAGTGTAAATCATTTTAAATTATTATTATTTTAA  
CTGGGGCAGTTATCAGTGGTTTTAAACAGGAACCTTTAGTGGCTTCAATTTGTTTAAAGAAACATATTAAGTTTGAGG  
GAAAAATTTCCCATGAAATATTTGGAACGTAAGAGTAGTATTGATTAGAGAAAATTAAATAAGAAACATAGTATG  
GTAGCCAAATTTTTTAAAAATCTTGAACCTTTCTGTAGGTCAGTTTTAGAAGTGTGAAAAGTGAAGGTTGC  
CCTGTGGAGATTAAAATTAGAGTTGTTTTTATAACTGACAGCATGGTGAATCCATTTGAGTCAAAGTGAAGAATT  
TCCTCATCAAGTGACTATACATTTGTTTTGTGTGCTCAAAAGAAATACTCAAACACAGACTGATATTAACCAGC  
CAGGTAAATTGAACGACAATGTGGCATTAGGTATTTGGCTGTTTATTGGTCGTTAAATACTATGGTTTTGCAATA  
TGATTGATGGTAAAAGAGTGATGTATATTGATACTAGAGTAGCTTGTTTTTTTAGTAGGTGTGGGACCATCTCT  
TTTACAAGTGCAACTCAGTCTAGGACAGCCATGGATGCAGTGTCTGGAGTTGGACCCTCTGAGCCCCTGGCTGC  
CCCAGTAGCATCTGCATTGGTGACCAAGGACACTGCACTTTGAAGAGGTGCGCCACTGGGTTATTTAGTGTCTTCA  
CTGCTTTTGTAAAAATTTGTAATAATTTGTACACAAAAAGTTGTGTTTTTGAATATCAATTGTTTAGACACACCT  
ACAATGATAAATAAGTGCCTTTAAAGGCCCTCTTTCCATGAAATACATCTGTGGTTTAGCAAGGAAAAGTACAAA  
ATAGTTTATGTAGTTGGTATAATTTTTATTTGTGTCTTCATGTAGAAAAATGAATGTCATAATAAAATATAAAA  
CTTACGTAAAG

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**FIGURE 2109**

MDNAGRRIHTNSTCSEACASPPGLLKCGLYFKCTEAHEVSGDKPASyrCFKVPSPWLSQSVPFLLYLIKCLFSY  
RSSTFTSIHSEYPITTKALTNLGGVILVPLFEV

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**FIGURE 2110**

GTGACTGCTTAGAAAACTGCACAGCATCTGATGAAATTAGCGAATAAGAACATCAACCATGTCTTACACTCCAGG  
AGTTGGTGGTGACCCCGCCAGTTGGCCAGAGGATCTCTTCTAACATCCAGAAGATCACACAGTGTTCTGTGGA  
AATACAAAGAACTCTGAATCAACTTGGAACACCTCAAGATTCACCTGAATTGAGGCAACAGTTGCAACAGAAGCA  
GCAGTATACTAACCAGCTTGCCAAAGAAACAGATAAGTACATTAAAGAGTTTGGATCTCTGCCCACCACCCCCAG  
TGAACAGCGTCAAAGGAAAAATACAGAAGGATCGCTTAGTGGCAGAGTTCACAACATCACTGACAACTTCCAGAA  
GGTCCAGAGGCAGGCTGCTGAGCGAGAGAAAGAGTTTGTGCTCGAGTAAGAGCCAGTTCCAGAGTGCTGTCAG  
TTTTCTGAGGACAGCTCAAAAGAAAGGAATCTTGTATCCTGGGAAAGCCAACTCAACCTCAAGTGCAGGTGCA  
GGATGAAGAAATTACAGAGGATGACCTCCGTCCTTATTCATGAGAGAGAATCTTCTATCAGGCAACTTGAAGCTGA  
TATTATGGATATTAATGAAATATTTAAAGATTTGGGAATGATGATTCATGAACAAGGAGATGTAATAGATAGCAT  
AGAAGCCAATGTGGAAAATGCAGAGGTGCACGTTTCAGCAAGCAAATCAGCAGCTGTCAAGGGCAGCAGATTATCA  
GCGCAAATCCAGAAAAACCTGTGCATCATCATTCTTATCCTTGTCAATTGGAGTTGCGATTATCAGTCTCATCAT  
ATGGGGATTGAACCACTGAAGTTATAAAGGAGCACACTGTGCGACTACATTGTCTAAATTATGTAGGAAGATTCC  
TGTAATCATGTTTTTTTAAATTATTATTTTAAAGCTATTGTATAAAGGATGGTTCCCATACTTTGTTATTTTTATT  
GGGGGGTTGGGGTGGTTCCCTTTGGATTAAATCTGATATTTTCTAATACTGAAAGATTTTCTAAATGTCACTGCT  
GACATAACTCCCTTGGTCTTCAATTTAATAGTTGTAAAGTTTTTGGCCACATTGCATATGCCTTTCATTTATAAT  
TTATTTACCCTGCTTGACTTAGTTTTGGGAATTCGTAAATTTAAAGGTGTGTGTATTCTGTTTGCATCTCCCTGT  
CACTGTGACACACCTAGATGTGTGTTACTTCAATTAAAATTCTCAAATTTAATTTTGATTGCTTCAGCAGGGAA  
AATATTCTCAATAATGTAAATAATTAAGGTCTATACATGGGTGTATTTTTCTGGTTCACAACAGCACAAAGTG  
TCTTTCATTTTTTTGTTGGTTTTCTTTTAAAGATCTTTTTTACCCTGAAGTCGGTGAATACTTTTCTAGTTTATTT  
GATACTCTTCTGTGTATATTAAGCTTTTGTCTGTAGATTGCCTAGTAAAATTACTAAGGATAGGTTGTTTTTA  
CATATGGTCTATTTAAGTCTGATGTTTACGGGGGAAAGTGTAGTTACTAAAAATGTTTAAACATAATTTGGAAGAA  
GAGTATGAACA



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**FIGURE 2111**

CTTTCCCTGCCGCCGCCGAGTCGCGCGGAGGCGGAGGCTTGGGTGCGTTCAAGATTCAGCTTCACCCGTAACCCA  
CCGCCATGGCCGAGGAAGGCATTGCTGCTGGAGGTGTAATGGACGTTAATACTGCTTTACAAGAGGTTCTGAAGA  
CTGCCCTCATCCACGATGGCCTAGCACGTGGAATTCGCGAAGCTGCCAAAGCCTTAGACAAGCGCCAAGCCCATC  
TTTGTGTGCTTGCATCCAACCTGTGATGAGCCTATGTATGTCAAGTTGGTGGAGGCCCTTTGTGCTGAACACCAAA  
TCAACCTAATTAAGGTTGATGACAACAAGAACTAGGAGAATGGGTAGGCCTTTGTAAAATTGACAGAGAGGGGA  
AACCCCGTAAAGTGGTTGGTTGCAGTTGTGTAGTAGTTAAGGACTATGGCAAGGAGTCTCAGGCCAAGGATGTCA  
TTGAAGAGTATTTCAAATGCAAGAAATTGAAGAAATAAATCTTTGGCTCACAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAA

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**FIGURE 2112**

MAEEGIAAGGVMDVNTALQEVLTALIHDLGARGIREAAKALDKRQAHLCVLASNCDEPMYVKLVEALCAEHQIN  
LIKVDDNKKLGEWVGLCKIDREGKPRKVVGCSVVVKDYGKESQAKDVIEEYFKCKK

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**FIGURE 2113**

GGCCGCCTCGCACCCGGAACAACAAAGCAAGGAAGACGGAGTCCGAGCCTCGGGGGCTCCTAGCAACGGGCGGG  
GCGGGAGTTCCATGGAGACTGGGGAGCGCGCCCGTCTCATCCTCATCCTTGTCCTCCAGCTTCTCCTTCGCATCC  
GACGCAACCGGCAGCAGCGCTGCCGCCGCGTCCCTCAGCCACCGCTCCCTCTTCCCACGGATGTGATCTTCGTGGT  
GGAAAGCTAAATTTTAAACCACCCCAATGGATGCAGACAGTGATGTTGCATTGGACATTCTAATTACAAATGTA  
GTCTGTGTTTTTAGAACAAGATGTCATTTAACTTAAGGAAGATTGCTTTGGAAGGAGCAAATGTAATTTATAAA  
CGTGATGTTGGAGTAATATTAATGAAGCTTAGAAAACCTAGAATTACAGCTACAATTTGGTCCTCAGGAAAAATT  
ATTTGCACTGGAGCAACAAGTGAAGAAGAAGCTAAATTTGGTGCCAGACGCTTAGCCCGTAGTCTGCAGAACTA  
GGTTTTCAGGTAATATTTACAGATTTTAAGGTTGTTAACGTTCTGGCAGTGTGTAACATGCCATTTGAAATCCGT  
TTGCCAGAATTCACAAAGAACAATAGACCTCATGCCAGTTACGAACCTGAACTTCATCCTGCTGTGTGCTATCGG  
ATAAAATCTCTAAGAGCTACATTACAGATTTTTTCAACAGGAAGTATCACAGTAACAGGGCCCAATGTAAAGGCT  
GTTGCTACTGCTGTGGAACAGATTTACCCATTTGTGTTTGAAAGCAGGAAAGAAATTTTATAATTCACCACTTAA  
TTGGTTAGAATCTCTAACTGAGCACCTTTTAAACCTGCTGCACATTGGACTCAAAGGAAAACTGGACCAACAAT  
AATTGAGGAAATAGACTCTTTTATTTCATTACGGCTACAGTGTAAGCTCCAGTCCCTTTGGATTTTATTCCAAAC  
CTTGCTGTAATATAAAAGGAAGTTTACAAGACATGATATTGCTGCTTTTACAAAAGGACATTCTATTTATTTTCG  
CAGTAATTCTCATGTCCCATAAGCAGAGCTGTGCAGTGTGCACTACCTTAGATTGTTTTATTGTCGTCATTGT  
TATTTTTTTCATTTTGAGCTAATGTGTTTTATTTGTGAATAGTCTTTTACATTTTTGTATGCTGAATATGGGCA  
CCAAAGAACCTGTAAAGTTATCTTTTTCAATTGAATGTGCACAAATAAAAGTTTGGA

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**FIGURE 2114**

GCCGGGGAGGGACGCAGGCAGGCGGGCGGGCAGCGGGAGGCGGCAGCCCCGGTGCGGTCCCCGCGGCTCTCGGCGGA  
GCCCCGCGCCCCGCGCGCCATGGCCCCGAAGACCCCGGCACAGCATATATAGCAGTGACGAGGATGATGAGGACTT  
TGAGATGTGTGACCATGACTATGATGGGCTGCTTCCCAAGTCTGGAAAGCGTCACTTGGGGAAAAACAAGGTGGAC  
CCGGGAAGAGGATGAAAACTGAAGAAGCTGGTGGAAACAGAATGGAACAGATGACTGGAAAGTTATTGCCAATTA  
TCTCCCGAATCGAACAGATGTGCAGTGCCAGCACCGATGGCAGAAAGTACTAAACCCTGAGCTCATCAAGGGTCC  
TTGGACCAAAGAAGAAGATCAGAGAGTGATAGAGCTTGTACAGAAATACGGTCCGAAACGTTGGTCTGTTATTGC  
CAAGCACTTAAAGGGGAGAATTGGAAAAAATGTAGGGAGAGGTGGCATAACCACTTGAATCCAGAAGTTAAGAA  
AACCTCCTGGACAGAAGAGGAAGACAGAATTATTTACCAGGCACACAAGAGACTGGGGAACAGATGGGCAGAAAT  
CGCAAAGCTACTGCCTGGACGAACCTGATAATGCTATCAAGAACCCTGGAATTCTACAATGCGTCGGAAGGTCTGA  
ACAGGAAGGTTATCTGCAGGAGTCTTCAAAAGCCAGCCAGCCAGCAGTGGCCACAAGCTTCCAGAAGAACAGTCA  
TTTGATGGGTTTTGCTCAGGCTCCGCCTACAGCTCAACTCCCTGCCACTGGCCAGCCCACTGTTAACAACGACTA  
TTCCTATTACCACATTTCTGAAGCACAAAATGTCTCCAGTCATGTTCCATACCCTGTAGCGTTACATGTAAATAT  
AGTCAATGTCCCTCAGCCAGCTGCCGCAGCCATTGAGAGACACTATAATGATGAAGACCCTGAGAAGGAAAAGCG  
AATAAAGGAATTAGAATTGCTCCTAATGTCAACCGAGAATGAGCTAAAAGGACAGCAGGTGCTACCAACACAGAA  
CCACACATGCAGCTACCCCGGGTGGCACAGCACCACCATTGCCGACCACACCAGACCTCATGGAGACAGTGCACC  
TGTTTCCTGTTTGGGAGAACACCACTCCACTCCAATCTCTGCCAGCGGATCCTGGCTCCCTACCTGAAGAAAGCGC  
CTCGCCAGCAAGGTGCATGATCGTCCACCAGGGCACCATTCTGGATAATGTTAAGAACCTCTTAGAATTTGCAGA  
AACACTCCAATTTATAGATTCTTTCTTAAACACTTCCAGTAACCATGAAAACCTCAGACTTGGAAATGCCTTCTTT  
AACTTCCACCCCCCTCATTTGGTCACAAATTGACTGTTACAACACCATTTTCATAGAGACCAGACTGTGAAAACCTCA  
AAAGGAAAATACTGTTTTTGAACCCCACTATCAAAAGGTCAATCTTAGAAAGCTCTCCAAGAACTCCTACACC  
ATTCAAACATGCACCTGACAGCTCAAGAAATTAATAACGGTCCCCTGAAGATGCTACCTCAGACACCCTCTCATCT  
AGTAGAAGATCTGCAGGATGTGATCAAAACAGGAATCTGATGAATCTGGAATTGTTGCTGAGTTTCAAGAAAATGG  
ACCACCCTTACTGAAGAAAATCAAACAAGAGGTGGAATCTCCAACCTGATAAATCAGGAAACTTCTTCTGCTCACA  
CCACTGGGAAGGGGACAGTCTGAATACCCAACCTGTTACGCAGACCTCGCCTGTGGCAGATGCACCGAATATTCT  
TACAAGCTCCGTTTTAATGGCACCAGCATCAGAAGATGAAGACAATGTTCTCAAAGCATTACAGTACCTAAAAA  
CAGGTCCCCTGGCGAGCCCCCTTGACAGCTTGTAGCAGTACCTGGGAACCTGCATCCTGTGGAAAGATGGAGGAGCA  
GATGACATCTTCCAGTCAAGCTCGTAAATACGTGAATGCATTCTCAGCCCGGACGCTGGTCTATGAGACATTTTC  
CAGAAAAGCATTATGGTTTTTCAAGACACTTCAAGTTGACTTGGGATATATCATTCTCAACATGAAACTTTTCAT  
GAATGGGAGAAGAACCCTATTTTTGTTGTGGTACAACAGTTGAGAGCAGCACCAAGTGCATTTAGTTGAATGAAGT  
CTTCTTGGATTTACCCAACTAAAAGGATTTTTTAAAAATAAATAACAGTCTTACCTAAATTATTAGGTAATGAAT  
TGTAGCCAGTTGTTAATATCTTAATGCAGATTTTTTTTAAAAAAACATAAAATGATTTATCTGTATTTTAAAGGA  
TCCAACAGATCAGTATTTTTTCTGTGATGGGTTTTTTGAAATTTGACACATTAAAGGTACTCCAGTATTTTAC  
TTTTCTCGATCACTAAACATATGCATATATTTTTTAAAAATCAGTAAAGCATTACTCTAAGTGTAGACTTAATAC  
CATGTGACATTTAATCCAGATTGTAAATGCTCATTTATGGTTAATGACATTGAAGGTACATTTATTGTACCAAAC  
CATTTTATGAGTTTTCTGTTAGCTTGCTTTAAAAATTATTACTGTAAGAAATAGTTTTTAAAAAATTATATTTT  
TATTCAGTAATTTAATTTTGTAAATGCCAAATGAAAAACGTTTTTTGCTGCTATGGTCTTAGCCTGTAGACATGC  
TGCTAGTATCAGAGGGGCAGTAGAGCTTGGACAGAAAGAAAAGAACTTGGTGTAGGTAATTGACTATGACTA  
GTATTTTACAGCTTTTTAATTTTATATATATATACATTTTTTTTCTTCTGCAATACATTTGAAAACCTGTTTGGG  
AGACTCTGCATTTTTTATTGTGGTTTTTTTGTATTGTTGGTTTTTATACAAGCATGCGTTGCACTTCTTTTTTGGG  
AGATGTGTGTTGTTGATGTTCTATGTTTTGTTTTGAGTGTAGCCTGACTGTTTTTATAATTTGGGAGTTCTGCATT  
TGATCCGCATCCCCTGTGGTTTTCTAAGTGTATGGTCTCAGAACTGTTGCATGGATCCTGTGTTTGCAACTGGGGA  
GACAGAACTGTGGTTGATAGCCAGTCACTGCCTTAAGAACATTTGATGCAAGATGGCCAGCACTGAACTTTTGA  
GATATGACGGTGTACTTACTGCCTTGTAGCAAAATAAAGATGTGCCCTTATTTT

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**FIGURE 2115**

MARRPRHSIYSSDEDDFEMCDHDYDGLLPKSGKRHLGKTRWTRREEDEKLKKLVEQNGTDDWKVIANYLPNRTD  
VQCQHRWQKVLNPELIKGPWTKEEDQRVIELVQKYGPKRWSVIAKHLKGRIGKQCRERWHNHLNPEVKKTSWTEE  
EDRIIYQAHKRLGNRWAEIAKLLPGRDINAIGNHWNSTMRRKVEQEGYLQESSKASQPAVATSFQKNSHLMGFAQ  
APPTAQLPATGQPTVNNDYSYYHISEAQNVSSHVPYPVALHVNIVNVPQAAAAIQRHYNDEDPEKEKRIKELEL  
LLMSTENELKGQQLPTQNHTCSYPGWHSTTIADHTRPHGDSAPVSCLGEHHSTPSLPADPGSLPEESASPARCM  
IVHQGTILDNVKNLLEFAETLQFIDSFLNTSSNHENS DLEMP SLTSTPLIGHKLTVTTPFHRDQTVKTQKENTVF  
RTPAIKRSILESSPRTPTPFKHALAAQEIKYGPLKMLPQTPSHLVEDLQDVIKQESDESGIVAEFQENGPPLLKK  
IKQEVESPTDKSGNFFCSHHWEGDSLNTQLFTQTSFVADAPNILTSSVLMAPASEDEDNVLKAF TVPKNRS LASP  
LQPCSSTWEPASCGKMEEQMTSSSQARKYVNAFSARTLVM

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**FIGURE 2116**

CTCCCTGTCGCCGCGGAGGGGCGGGGGCAGGACGCGCAACTCCGGCCGGAGCTGTCCGGGGTTCGTGAGCCGGCCC  
CGCCTTGGTGGCGGCGCCCCCTCGCGGTCCAGAGGCAGACGCATCGGGTGGGCTCGGGTCTCCAGCCCGGCCGGG  
AGGAGGGACCGGGTCTGCGGAGCGGGGACTCGGGGCCTCGGCGGGGCGCGCACACGCAGGCGGGGCGGCCCGGGG  
TGCGGGGCCTCTGCGCGGCTGACCAGGCTCCAGAGCGTCAGCGCCGCCCATGCGCCGAGCCGCTCCAGCCAGACC  
CCGGGGCGGCCGAGGACGCGGCGGCCCAAGCTGTGGAGACGCCGGGCTGGAAGGCCCGGAGGACGCCGGCCCCC  
AGCCCGGAAGTTATGAGATCCGACACTATGGACCAGCCAAGTGGGTCAGCACGTCCGTGGAGTCTATGGACTGGG  
ATTCAGCCATCCAGACGGGCTTTACGAACTGAACAGCTACATTCAAGGCAAAAACGAGAAAGAGATGAAAATAA  
AGATGACAGCTCCAGTGACAAGCTACGTGGAGCCTGGTTCAGGTCCTTTTAGTGAGTCTACCATTACCATTTCCC  
TGTATATTCCTCTGAACAGCAATTTGATCCACCCAGGCCTTTAGAGTCAGATGTCTTCATTGAAGATAGAGCCG  
AAATGACTGTGTTTGTACGGTCTTTCGATGGATTTTCTAGTGCCCCAAAAGAATCAAGAACAACCTTTTGACATTAG  
CAAGCATTTTAAGGGAAGATGGAAAAGTTTTCGATGAGAAGGTTTACTACACTGCAGGCTACAACAGTCCTGTCA  
AATTGCTTAATAGAAATAATGAAGTGTGGTTGATTCAAAAAATGAACCCACCAAAGAAAACGAATGAGAAAAAT  
GAAAGGAAGTTCTGCTGTCAGAGGCAAAACATCTGTTTATCATAGACATCAACATGACCTATAAGTAAAGTGCCT  
GTCTAGTGTCTTCTATTGAGAGTACTACTATTAATTAAGCTTATTTCCAATGTGCCTTTTTAATGCTTGAAGTTT  
TATCTACATACACAGGTAACAGAGGACAGTAGTCTGTAAACATATAAATCGGTCATAACTATCGTGGTCTTTATT  
TCTGTGAGGATC

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**FIGURE 2117**

MAEFLQDPGAAEDAAAQAVETPGWKAPEDAGPQPGSYEIRHYGPAKWVSTSVESMDWDSAIQTGFTKLNSYIQG  
KNEKEMKIKMTAPVTSYVEPGSGPFSESTITISLYIPSEQQFDPPRPLESDVFIEDRAEMTVFVRSFDGFSSAQK  
NQEQLLTLASILREDGKVFDEKVYYTAGYNSPVKLLNRNNEVWLIQKNEPTKENE

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**FIGURE 2118**

AGAACCACCACAACAAATAACCAGCCTGGCAGTCAATTCTTCCCTATGGACTGGTGGTTTTTGGCAATTGCAATGG  
CATTGCTATGGTTGACTACCTCCAGAAAGCAGTGCTGCTCAACCTGGGCACTATTGAATTATATGGCTCTAATGA  
TCCTTATCGGAGAGAACCCCGATCTCCTCGTAAATCTCGACAGCCTTCAGGAGCCGGTCTGTGTGATATTAGTGA  
AGGGACTGTTGTTCCAGAGGATCGCTGCAAATCTCCAACCTCTGCAAAGATGTCAAGGAAGTTAAGCTTACCTAC  
TGACCTAAAGCCTGATTTAGATGTAAAGGATAACTCCTTTAGCCGATCACGGAGTTCAAGTGTAAACAAGCATTGA  
CAAAGAATCCCGAGAAGCGATCTCCGCTCTTCATTTCTGTGAAACGTTTACTCGAAAGACGGACTCGTCCCCTTC  
CCCTTGCTATGGGTTGGAACAACGCTAGGAACAGTGCTTGTGCTTGTGCACTGAACCTTCCCCCAGGGGGAGAGCA  
AAGACTTCTTCAGCCAGTAATTGTGTCTCCAAGTGGTACTATATTGAGGTTAAAAGGTGCAATCTTGAGAATGGC  
ATTTCTGGATACCACAGGCTGCTTAATACCACCTGCGTATGAACCTTGGAGAGAGCACAATGTTCTGAAGAAAA  
AGAGGAAAAGGAGAAATTGAAAAACGGCGGCCTGTCTCAGTATCCCCCTCCTCTTCTCAGGAAATTAGTGAAAA  
CCAGTATGCAGTGATATGTTCTGAAAAGCAAGCAAAAGTAATCTCACTGCCAACCCAGAAGTGTGCTTATAAGCA  
AAATATTACAGAGACCTCGTTTGTGCTTCGTGGAGATATTGTAGCATTGAGTAACAGTATCTGCCTTGCCTGTTT  
CTGTGCCAATGGACATATAATGACTTTTAGTTTGCCAAGTTTAAAGACCTCTGTTGGATGTGTATTACTTGCCCT  
TACCAATATGCGGATAGCCAGAACGTTCTGCTTTACCAACAATGGACAAGCATTATACCTTGTTCACCTACAGA  
AATCCAGAGACTTACTTATAGTCAAGAGACCTGTGAAAATCTTCAGGAAATGTTGGGTGAACCTCTTCACTCCTGT  
AGAAACACCTGAAGCACCAACAGGGGATTCTTTAAAGGCTTATTTGGAGGTGGTGCACAATCTCTTGACAGAGA  
AGAATATTTGGAGAATCGTCCTCAGGAAAGGCTTCAAGGAGCCTTGACAGCATATTCTGGCCCTGGTGGCAT  
TGAAGGCGTAAAAGGGGCGAGCATCTGGAGTTGTTGGTGAATTAGCACGAGCCAGGCTGGCACTAGATGAAAGAGG  
GCAGAAACTTGGCGATCTGGAAGAAAGAACTGCGGCCATGTTATCAAGTGCAGAGTCATTTTCTAAACATGCTCA  
TGAGATTATGTTGAAATACAAAGATAAGAAGTGGTACCAGTTCTGACAACCAGAATCCAATAAGTCCAACCTTCAG  
CCAGAAGGAAAAAAGTTTTCCATTTTTATTACATTCTTTAGGAAAGTTAACGTTAAAGGGATGTTGCTCACTGAA  
TACTGTTCTTTCCTAGCACAGTCATGCACTGTTTTACCTCAGTCATGTGGCTTTAACTGAGGAGTGTTACACGC  
ACTCGAAATGGAGTATATGGTGTGTGCCAGTTATGAGTTGACCATTGGAATTAAACAGGTCACACGTGACAGA  
TGAAGAAACCAAGGGGGCTGCTGAGGAGACCTGGTGCAGGGACTAATCCTGGATCATTCTGTATTAACTTTCA  
TATGCCAAAAGGTTTGTGCCGTTTTATCTGCCATCAGTGTTTGACCTGTTAGGGCAGAGGCAATAAGTCAGAA  
GTCTTGAAGTTGAAATAGTTATATGTGTGTCATTGGACTGGATTATAAACAGCTGTCTTGGACTTTCCCTCTCTT  
AACACTGACTGGTCATCAGTATCATTAGTGAAAAAGAAACAAATTGTTTGTATCATCTCTTTAGACAGATAAGC  
TGAATGGTGGGCTTTAAATAATAAAAACATACACATAGTTGACTTGTGTATGAGCTACTCTTGGATTCTTGTTAT  
TATAGACTTGATTTAGTTCATATTTTGTCAAAAGCAAAACAAGAAGATACATCACTTTTCATTGAAAAGAAAAG  
TGTAAGCATGACTGAATTGCTCATCATTCTGGGAGTTTCCATGTAGTGGCTATGCAGTGTGGAAGTGAGAAAA  
ACCTCCATTGTGGTGAGGAGAATACTTCAATGTCCCTTGTCTTGTCTCATTAATTCAGCTAAAGGTGGATTTG  
ACCAAAATAATGCTGGTTAAATTTGTAGAAATGTTGAAATTGGCTGTGTTTTAAATTTTGCTTGAATTTTTATAA  
AATGTTTAACCAATGTACCTTGCATTCTTTAATTAAAATTGCTT



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**FIGURE 2119**

TTTTTCGTCTGGGCTGCCAACATGCCATCCAGACTGAGGAAGACCCGGAACTTAGGGGCCACGTGAGCCACCGC  
CACGGCCGCATAGGCAAGCACCGGAAGCACCCCGGCGGCCGGTAATGCTGGTGGTCTGCATCACCACCGGATC  
AACTTCGACAAATACCACCCAGGCTACTTTGGGAAAGTTGGTATGAAGCATTACCACTTAAAGAGGAACCAGAGC  
TTCTGCCCCAACTGTCAACCTTGACAAATTGTGGACTTTGGTCAGTGAACAGACACGGGTGAATGCTGCTAAAAAC  
AAGACTGGGGCTGCTCCCATCATTGATGTGGTGCGATCTGGCTACTACAAAGTTCTGGGAAAGGGAAAGCTCCCC  
AAGCAGGCTGTCACCGTGCAGGCCAAATTCTTCAGCAGAAGAGCTGAGGAGAAGATTAAGAGTGTTGGGGGGGCC  
TGTGTCCTGGTGGCTTGAAGCCGCATGGAGGGAGTTTCATTAAATGCTAACTACTTAAAAAAAAAAAAAGAAGAA  
GAAGAAGAAGAAAAA

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**FIGURE 2120**

MPSRLRKTRKLRGHVSHRHGRIGKHRKHPPGGRGNAGGLHHRINFDKYHPGYFGKVGMMKHYHLKRNQSFCTVNL  
DKLWTLVSEQTRVNAAKNKTGAAP IIDVVRSGYYKVLGKGKLPQAVTVQAKFFSRRAEEKIKSVGGACVLVA

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**FIGURE 2121**

ATGCGGTCCCGGGTTCTGTGGGGCGCTGCCCGGTGGCTCTGGCCCCGCCGGGCGGTTGGCCCAGCCCGCCGGCCC  
CTGAGCTCCGGTAGCCCCCGCTGGAGGAGCTGTTACCCGGGGCGGGCCCTTGCGGACCTTCCTCGAGCGCCAG  
GCGGGGTCTGAAGCCCATTTGAAGGTCAGGAGGCCGAGTTGCTGGCGGTGATCAAACCTGCTGAACGAGAAGGAG  
CGGGAGCTGCGGGAGACTGAGCACTTGCTGCACGGTAAGGGTCGGGCCCGGGGAGAGGCGTCAGAGCACATTCT  
TGACTCTTCGTTTGACTTTTCCACTGCCACACTACCCGAGTTTGAACTCTTTACTCACTTGACGCCGTTTTTA  
TTTTGGATCAGAGGTCAGGACATCATTACGTGCTGTGATCCCATCCTCTCCTGTGGGCTCTCTTGTGCTCCTTG  
CCACGGCGCTCTGCCGCCCTTTTACATGCTTATTAGTTGTGGACTCGGGCAAGAGCTCATTAGCTCAGCAAGGATA  
AATAAGGCACTGTCCCTGTGATGGGCTCCACAGCGGTGTTTCTCAAAGTGTGGTGTGGAGACCCATTTGCAGTAG  
TATCAGGGCAGTGCTTGTTAATAGCAGACTTAGGACTCAGAATCTCAGACCTATACGTGGGTAAAGGTACTAAAT  
TGGGAAATTCAAGTATGGCCTAAGTATAGAATAGGTGGGAGATGATGTCATAGAAACATGAAGCCAGAAAAATAGT  
TAAGAACCTTGCAAGACAAAGAATTTGGATTTATTTTTTATAGACCATGGAAAGTTAGCAAATGTTTTTAAGCAG  
AGAATTCACGTCTTTGTAAAGAAAAGTTAATGGTGGCATGCGCTGAGGATAAATTTGGAGTATTCTCCAGAAACGC  
TGGTGGCTGACAGGCCAGGGAGGAGGCAGTTGAAACAATCCAAAGAAGAAATGGTGATAGGCATAGTTCTGACTC  
ACAAAACATTTTGAGAAACAAGTTAGGATTTAGTGGCTTATGCCCTGAGAAGGATGAGGGAGAGAGTTAGTTCTA  
AGAAAAGTCTTAGGTTTCTGGCTTCAGCACGAGTGGTACTGTTAATTAAGATGAAAGTATAAAAGTTGGACCGAA  
TTTTTTAAAAAGATGAGTTTGCATTGAATGCCATATTAAGTTAAAAATACCTGTGAAAAGGAATTCCAATAAAG  
ATATCTGTACTAGTCTAGGAGAAAAAATTACTGACATAGGAGAAAAATTGAGCCCAAATAATCATATGAGAGCTC  
TCGAGATATACAGTACGTGGTAAATTAACCTTAGAAGTAGATGAGAACTCAGGGAAAATGTGTTAAGATAGA  
AACAAGTCTAACAAGGCCAGAAATACACAGTATTTGAGGAGCAGGCAGAGAAGAAGGCTATAAAAGGTCAAGAAA  
AAAAACAGCCAGAGCTTTGTGACCTGAAGTAGATAAAATAAATGAAGCTGTAGAAGCCAATAGAAAATTTCAAGAA  
GTAAGAGATCCTTGGCCAGGCGTGGTGGCTCACGCCTCTAATTCCAGCACTTTGAGAGGCTCAGGTGGGCCGATC  
ACTTGAGCCCAGGAGTTCGAGACCAGCCTGGGTAACATGGCAAAACCTGTCTCTACAAACAATGCAAAATTAGC  
TGGGCATGGTGGTGCCTGTGGTCCCAGCTACTTGAGAGGCTGAGGTGGGAGAATCGCTTGAACCCGGGAGG  
TGGAGGTTGCAGTGAGCCAAGATGGTGCCACTGCATTCCAGCCTGGGTGACAGCGCAAGACCCTGCCTC

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**FIGURE 2122**

ATGCGGTCCCGGGTTCTGTGGGGCGCTGCCCCGGTGGCTCTGGCCCCGCCGGGCCGTTGGCCCAGCCCGCCGGCCC  
CTGAGCTCCGGTAGCCCGCCGCTGGAGGAGCTGTTACCCGGGGCGGGCCCTTGCGGACCTTCCTCGAGCGCCAG  
GCGGGGTCTGAAGCCCATTTGAAGGTCAGGAGGCCCGAGTTGCTGGCGGTGATCAAACCTGCTGAACGAGAAGGAG  
CGGGAGCTGCGGGAGACTGAGCACTTGCTGCACGATGAGAATGAAGATTTAAGGAACTTGACAGAGAATGAAATC  
ACTTTGTGTCAAAAAGAAATAACTCAGCTGAAGCATCAGATTATCTTACTTTTGGTTCCCTCAGAAGAAACAGAT  
GAAAATGATTTGATCCTGGAAGTAACTGCAGGAGTTGGAGGTCAGGAGGCAATGTTGTTTACATCAGAGATATTT  
GATATGTATCAGCAATATGCTGCATTTAAAAGATGGCATTGTTGAAACCCTGGAATATTTTCCAAGTGAAGTAGGT  
GGCCTTAGACATGCATCTGCCAGCATTGGGGGTTTCAAGCCCTATAGGCACATGAAATTTGAAGGAGGTGTTTAC  
AGAGTACAAAGAGTGCCAAAGACAGAAAAGCAAGGCCGCGTCCATACTAGCACCATGACTGTAGCAATATTACCC  
CAGCCTACTGAGATTAATCTGGTGATTAATCCGAAAGATTTGAGAATTGACACTAAGCGAGCCAGTGGAGCTGGG  
GGGCAGCATGTAAATACCACGGACAGTGCTGTCCGGATAGTTCATCTTCCAACAGGTGTTGTTTCTGAATGTCAA  
CAAGAGAGATCTCAGCTGAAAAATAAAGAGCTGGCTATGACAAAGTTACGTGCAAACTGTACAGCATGCATCTA  
GAAGAAGAAATAAATAAAAGACAGAAATGCTAGAAAAATTCAGATTGGAAGTAAAGGAAGATCAGAGAAAAATAAGA  
ACATATAATTTTCCACAGAACCGGGTCACAGATCACAGAATAAACAAGACGCTGCATGATCTTGAACTTTTATG  
CAAGGAGATTATCTACTGGATGAAGTTGTACAGTCATTGAAGGAATACGCCGATTATGAATCTTTAGTAGAAATT  
ATTTCCTCAAAAAGTTTAA

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**FIGURE 2123A**

CAAAAATCAGTCTGATCTCGGGAAACCTGGAGAAATTTATTTTCTGTACTCTAATGTTCTTTTCATTTTGGTGACC  
ATCAAGGTGCTGGGAGAGGAATTAGATGGCTGTAATTCAAAGTTAATGGAATTAGATGCAGCAGTACAGAAATTC  
TTGGAACAGAAATGGCCAACTGGGTAAGCCACTGGCCAAGAAGATAGGAAAACTGACTGAACTTCACCAGCAGACC  
ATTAGACAAGCTGAGAATCGGCTCTCCAAGCTCAATCAGGCAGCATCACATTTAGAAGAATACAATGAAATGCTT  
GAATTAATTTTGAAGTGGATTGAAAAAGCTAAAGTCTTGGCTCATGGAACCTATTGCAATGGAATTCCTGCAAGCCAG  
CTTCGGGAACAATATATTTTGCATCAGACCCTGCTAGAGAATCCAAAGAAATTGACAGTGAGCTGGAAGCAATG  
ACTGAGAAATTACAGTACCTCACTAGCGTGTACTGTACAGAAAAAATGTCTCAGCAAGTGGCAGAACTGGGACGG  
GAGACTGAGGAGTTGCGACAGATGATCAAAATTCGTTTGCAGAACCTCCAAGATGCAGCTAAGGATATGAAAAA  
TTTGAAGCAGAGTTGAAAAAGTTACAAGCTGCCTTGGAGCAAGCCCAGGCAACACTGACTTCTCCAGAAGTTGGA  
CGTCTCAGTCTCAAGGAGCAGCTCTCTCATCGGCAGCATTGTGTGTCTGAGATGGAGTCACTGAAGCCGAAGGTG  
CAAGCAGTGCAGCTCTGCCAGAGTGCCCTCCGGATCCCCGAGGATGTGGTTGCCAGCTTACCTCTCTGTCTATGCT  
GCTCTGCGGCTGCAGGAAGAGGCCAGCCGGCTGCAGCACACCGCCATCCAGCAGTGTAAACATCATGCAGGAAGCT  
GTGGTACAATATGAACAATATGAGCAAGAAATGAAACATCTCCAGCAACTGATAGAAGGAGCTCACAGAGAGATT  
GAGGATAAACCTGTTGCCACCAGTAACATACAGGAGCTGCAGGCTCAGATTTCTCGGCATGAGGAGCTGGCGCAG  
AAAATTAAGGGCTACCAGGAGCAGATCGCTTCTTTGAATTCCAAGTGCAAGATGCTGACGATGAAAGCCAAGCAC  
GCCACCATGCTGCTGACGGTGACCGAGGTGAGGGGCTGGCGGAAGGGACAGAGGACCTGGATGGGGAGCTCCTC  
CCCACGCCCTTCGGCCACCCCTCTGTGGTCTATGACTGCAGGTGCTGTCACACTTTGCTGTACCCGGTCACT  
GAGGAGTCTGGGGAGGAGGGAACCAACAGTGAGATTTCTCTCCACCTGCCTGTCGCTCCCTTCACCTGTGGCT  
AATACAGATGCTTCTGTTAACCAGGACATTGCATATTACCAAGCCTTGCTGCTGAGAGGTTGCAGACAGATGCT  
GCAAAAATTCACCCCAGCACATCCGCATCCCAGGAGTTCTATGAACCGGGATTGGAGCCATCCGCTACTGCCAAA  
CTGGGTGATTTGCAGCGTTCTTGGGAAACCTTAAAGAATGTGATCAGTGAGAAGCAGCGCACACTCTATGAAGCT  
TTGGAACGCCAGCAGAAGTACCAGGACTCCCTCCAGTCCATCTCTACGAAGATGGAGGCCATTGAGCTGAAACTC  
AGTGAGAGCCCAGAGCCTGGCAGGAGTCCAGAAAGCCAGATGGCTGAACATCAGGCATTGATGGATGAGATTCTC  
ATGCTCCAGGATGAAATCAATGAGCTCCAGTCTCTCTCGCAGAGGAGCTGGTATCCGAGTCTTGTGAGGCCGAC  
CCTGCGGAGCAGCTGGCCTTGAGTCCACGCTCACTGTCTTAGCCGAGCGAATGTCCACCATCAGGATGAAAGCC  
TCGGGGAAACGGCAGCTTTTGGAGGAGAAGTTGAATGATCAGCTGGAGGAACAAAGGCAGGAACAGGCCCTGCAG  
AGGTATCGCTGTGAAGCCGATGAGCTGGACAGCTGGCTCTTGAGTACCAAGGCCACTCTGGACACTGCGCTGAGT  
CCACCCAAGGAGCCCATGGACATGGAGGCCAGCTTATGGACTGCCAGAATATGCTGGTGGAATAGAGCAGAAG  
GTGGTGGCTTTATCAGAACTGTCAGTCCACAATGAGAACCTGCTGCTGGAGGGCAAAGCTCACACCAAGGACGAG  
GCCGAGCAGCTGGCTGGAAAGCTGAGAAGGCTCAAGGGGAGCCTGCTGGAGCTGCAGAGAGCCCTGCATGATAAG  
CAGCTCAACATGCAGGGAACAGCACAGGAGAAGGAGGAGAGCGATGTTGACCTAACAGCCACGCAGAGCCCCGGC  
GTCCAGGAATGGCTGGCCCAAGCTCGCACCATGACCCAGCAGCGGCAGAGCAGTCTCCAGCAACAAAAAGAG  
TTAGAACAGGAATTAGCCGAGCAGAAGAGTCTCCTTCGCTCAGTAGCCAGTCGTGGAGAGGAGATTCTAATTCAA  
CATTGCGCGGCAGAGACCTCTGGTGATGCTGGCGAAAAACCTGATGTGTTATCCCAGGAGTTGGGGATGGAAGGG  
GAGAAATCATCCGCTGAAGACCAGATGAGAATGAAATGGGAAAGCCTACATCAAGAATTTAGTACCAAGCAGAAA  
CTACTACAGAATGTTCTGGAACAGGAACAAGAGCAAGTGCTTTATAGCAGGCCAAATCGACTCTTGTCTGGTGTG  
CCACTGTACAAAGGGGACGTGCCAACCCAAGATAAATCTGCAGTTACATCTTTGCTGGATGGACTGAACCAAGCC  
TTGAGGAGGTTTCATCCCAGAGTGGAGGGGCAAAGAGGCAGAGTATACACTTGGAGCAGAAGTTGTATGATGGA  
GTCTCAGCCACCTCTACTTGGTTGGATGACGTTGAAGAACGTTTATTTGTTGCCACAGCACTTTTACCAGAAGAA  
ACAGAGACTTGTCTCTTCAACCAAGAGATTCTTGCCAAAGACATTAAGGAAATGTCTGAAGAAATGGATAAGAAC  
AAAAACTTGTTTTCCCAAGCTTTTCCAGAGAATGGTGATAATCGAGATGTTATTGAAGATACTTTGGGTTGTCTT  
TTGGGCAGGTTATCCTTGCTAGACTCAGTAGTGAATCAACGATGTCATCAGATGAAAGAAAGACTTCAGCAAATA  
CTAAATTTCCAGAATGATCTGAAAGTGCTGTTTACATCACTGGCTGACAACAAATACATCATTCTGCAAAAACCTG  
GCAAATGTGTTTGAACAGCCCGTAGCAGAACAAATAGAGGCAATACAACAGGCTGAAGATGGACTCAAAGAATTT  
GATGCAGGAATCATTGAATTAAAGAGGCGTGGTGACAAGCTACAGGTCGAGCAGCCGTCCATGCAAGAACTCTCC  
AAGCTCCAGGACATGTATGATGAGCTGATGATGATCATTGGCTCCCGGAGGAGTGGTCTGAATCAGAACCTTACA  
CTCAAGAGTCAGTATGAGAGGGCCCTACAAGATCTGGCTGACCTGCTAGAAACTGGTCAGGAGAAGATGGCAGGA  
GACCAGAAAATCATCGTGTCTTCCAAAGAGGAAATCCAGCAACTACTTGACAAACATAAGGAATACTTTTCAGGGC

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**FIGURE 2123B**

CTGGAATCTCATATGATCTTGACTGAAACACTCTTCAGAAAGATAATCAGCTTTGCAGTCCAAAAGGAAACCCAG  
TTCCATACAGAGCTGATGGCTCAGGCTTCTGCTGTACTGAAACGGGCTCACAAGAGGGGTGTGGAGCTGGAGTAC  
ATTCTAGAGACGTGGTCCCATCTGGATGAGGACCAGCAGGAGCTCAGCAGACAGCTGGAGGTGGTGGAAAGCAGC  
ATCCCAAGCGTGGGTCTGGTGGAGGAGAACGAGGACAGGCTTATTGACCGCATAACACTCTACCAGCATTAAAA  
TCTAGCCTTAATGAATACCAGCCCAAATTATATCAAGTATTAGATGATGGGAAACGACTTCTGATATCCATCAGC  
TGCTCAGATCTAGAAAGCCAACTAACTCAACTTGGAGAGTGTGGCTAAGTAACACCAATAAAATGTCTAAGGAA  
CTTCACAGACTGGAAACAATATTGAAACACTGGACCAGATATCAAAGTGAATCTGCAGATCTAATTCAGTGGTTA  
CAATCTGCAAAAGACCGGCTAGAATTTTGGACTCAGCAATCTGTGACAGTCCCAACAAGAGCTGGAAATGGTCCGT  
GATCATCTAAATGCTTTCTGGAGTTTTCTAAAGAAGTGGATGCCCAATCTTCCCTGAAATCATCTGTTCTGAGT  
ACTGGAAATCAGCTCCTTCGACTAAAAAGGTGGACACAGCCACGCTGCGCTCTGAGCTGTGCGCATTGATAGC  
CAGTGGACTGACCTGCTAACCAATATCCCAGCCGTCCAGGAGAAGCTCCACCAGCTCCAGATGGATAAACTGCCT  
TCCCGCCATGCCATTTCTGAAGTCATGAGTTGGATTTCTCTAATGGAAATGTTATTCAGAAGGATGAAGATAAT  
ATTAAAAATTCCATAGGTTACAAGGCAATTCATGAATACCTTCAGAAATATAAGGGTTTTAAGATAGACATTAAC  
TGTAACAGCTGACAGTGGATTTTGTGAACCACTCCGTGCTACAAATCAGCAGTCAGGATGTGGAAAGTAAGCGT  
AGTGATAAGACTGATTTTGTGCTGAGCAACTTGGAGCAATGAATAAAAGTTGGCAAATCTGCAAGGTCTAGTAAT  
GAGAAGATCCAGCTGTTGGAAGGCTTATTGGAATCTTGGTCAGAATATGAAAATAATGTACAATGTCTGAAAACA  
TGGTTTGAACCCAGGAAAAGAGACTAAAAACAACAGCATCGAATTGGAGATCAGGCTTCTGTTCAAATGCACTG  
AAAGACTGTCAGGATCTGGAAGATTTGATTAAAGCAAAAGAAAAGAAGTAGAGAAAATTGAGCAGAATGGACTT  
GCTTTGATTGAGAACAGAAAGAAGACGCTCTCTAGCATTGTCATGAGCACACTGCGAGAGCTCGGCCAAACCTGG  
GCAAATTTAGATCACATGGTTGGACAATTAAAGATACTGCTGAAATCAGTGCTTGACCAATGGAGTAGTCACAAA  
GTGGCCTTTGACAAGATAAACAGTTACCTCATGGAGGCCAGATACTCTCTTTCCCGATTCCGTCTGCTGACTGGC  
TCCTTAGAAGCTGTGCAAGTTTCAGGTGGACAATCTTCAGAATCTCCAAGATGATCTGGAAAAACAGGAAAGGAGC  
TTACAGAAATTTGGCTCTATCACCAACCAATTATTAAGAGAGTGTCAACCCACCGTGACAGAACTCTTACCAAT  
ACACTGAAAGAAGTCAACATGAGATGGAATAACTTGCTGGAAGAGATTGCTGAGCAGCTACAGTCCAGCAAGGCC  
CTACTTCAGCTTTGGCAAAGATACAAGGACTACTCCAAACAGTGTGCTTCGACAGTTCAGCAGCAGGAGGATCGA  
ACCAATGAGCTGTTGAAGGCAGCCACAAACAAGGACATTGCCGATGATGAGGTTGCCACATGGATTCAAGATTGC  
AACGACCTCCTCAAAGGACTGGGCACAGTTAAAGATTCCCTCTTTTTCTCCATGAGCTGGGAGAGCAACTGAAG  
CAACAAGTGGATGCTTCCGCAGCATCAGCTATTCAATCGGATCAACTCTCTTTGAGTCAACACTTGTGTGCCCTG  
GAGCAAGCTCTCTGCAAACAGCAGACTTCATTACAGGCTGGAGTTCTTGATTATGAAACCTTTGCCAAGAGTTTA  
GAAGCTTTGGAGGCCTGGATAGTGAAGCTGAAGAAATACTACAAGGGCAGGACCCTAGCCACTCATCTGACCTC  
TCCACAATCCAGGAAAGGATGGAAGAACTTAAGGGACAGATGTTAAAAATTCAGCAGCATGGCTCCAGATTTAGAC  
CGTCTAAATGAGCTTGATATAGGTTACCCTTGAATGATAAGGAAATCAAAAGAATGCAGAATCTGAACCGCCAT  
TGGTCTCTGATCTCCTCTCAGACTACAGAAAGATTAGCAAGTTGCAGTCATTTTTGCTACAACATCAGACTTTC  
TTGGAAAAATGTGAAACATGGATGGAATTCCTAGTTAGACAGAAACAAAAGTTAGCAGTAGAGATTTAGGAAAT  
TATCAGCACCTTTTGAACAGCAGAGAGCACACGAGTTGTTTCAAGCCGAGATGTTTCAGTCGTCAGCAGATTTTG  
CACTCAATCATTATTGATGGGCAACGTCTTCTAGAACAAGGTCAAGTTGATGACAGGGATGAATTCACCTGAAA  
TTGACACTCCTCAGTAATCAATGGCAGGGAGTGATTTCGAGGGCCAGCAGAGGCGGGGATCATTGACAGCCAG  
ATTGCCAGTGGCAGCGCTATAGGGAGATGGCAGAAAAGCTTCGTAAATGGTTGGTTGAAGTGTCTACCTCCCC  
ATGAGTGGTCTCGGAAGTGTTCCTATACCACTGCAACAAGCAAGGACCCTCTTTGATGAAGTGCAGTTCAAAGAA  
AAAGTGTCTTCTGCGGCAACAAGGCAGCTACATCCTGACTGTGGAGGCTGGCAAGCAACTCCTTCTCTCGGCGGAC  
AGTGGCGCTGAGGCCGCTTGCAGGCCGAACCTCGCTGAAATCCAAGAGAAATGGAAATCAGCCAGCATGCGGCTG  
GAAGAACAGAAGAAAAAACTAGCCTTCTTGTGAAAGACTGGGAAAAATGTGAGAAAGGAATAGCAGATTCCTTG  
GAGAACTACGAACCTTTCAAAAAAGAGCTTTTCGAGTCTCTCCCGATCACCATGAAGAGCTCCATGCAGAACAA  
ATGCGTTGCAAGGAATTAGAAAAATGCAGTTGGGAGCTGGACAGATGACTTGACCCAGTTGAGCCTGCTGAAGGAC  
ACCCTCTCTGCCTATATCAGTGCTGATATCTCCATTCTTAATGAACGCGTAGAGCTTCTGCAAGGCAGTGG  
GAAGAATATGCCACCAGCTCTCCTTAAGGCGGCAGCAAATAGGTGAAAGATTGAATGAATGGGCAGTCTTCAGT  
GAAAAGAACAAGGAATCTGTGAGTGGTTGACTCAAATGGAAAGCAAAGTTTCTCAGAATGGAGACATTCTCATT  
GAAGAAATGATAGAGAAGCTCAAGAAGGATTATCAAGAGGAAATTGCTATTGCTCAAGAGAACAAAATACAGCTC

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**FIGURE 2123C**

CAACAAATGGGAGAACGACTTGCTAAAGCCAGCCATGAAAGCAAAGCATCTGAGATTGAATACAAGCTGGGAAAG  
GTCAACGACCGGTGGCAGCATCTCCTGGACCTCATTGCAGCCAGGGTGAAGAAGCTGAAGGAGACCCTGGTAGCC  
GTGCAGCAGCTTGATAAGAACATGAGCAGCCTGAGGACCTGGCTCGCTCACATCGAGTCAGAGCTGGCCAAGCCA  
ATAGTCTACGATTCTGTAACTCGGAAGAAATACAGAGAAAGCTTAATGAGCAGCAGGAGCTTCAGAGAGACATA  
GAGAAGCACAGTACAGGTGTTGCATCTGTCTCAACCTGTGTGAAGTCCTGCTGCACGACTGTGACGCTGTGCC  
ACTGATGCCGAGTGTGACTCTATACAGCAGGCTACGAGAAACCTGGACCGGCGGTGGAGAAACATTTGTGCTATG  
TCCATGGAAAGGAGGCTGAAAATCGAAGAGACGTGGCGATTGTGGCAGAAATTTCTGGATGACTATTACGTTTT  
GAAGATTGGCTGAAGTCTTCAGAAAGGACAGCTGCTTTTCCAGCTCTTCTGGGGTGATCTATACAGTTGCCAAG  
GAAGAACTAAAGAAATTTGAGGCTTTCCAGCGACAGGTCCACGAGTGCCTGACGCAGCTGGAAGTATCAACAAG  
CAGTACCGCCGCTGGCCAGGGAGAACCAGCTGATTACAGCATGTAGCCTCAAACAGATGGTTCACGAAGGCAAC  
CAGAGATGGGACAACCTGCAAAAGCGTGTACCTCCATCTTGCAGACTCAAGCATTTTATTGGCCAGCGTGAG  
GAGTTTGAGACTGCGCGGGACAGCATTCTGGTCTGGCTCACAGAGATGGATCTGCAGCTCACTAATATTGAACAT  
TTTTCTGAGTGTGATGTTCAAGCTAAAAATAAGCAACTCAAGGCCTTCCAGCAGGAAATTTCACTGAACCACAAT  
AAGATTGAGCAGATAATTGCCCAAGGAGAACAGCTGATAGAAAAGAGTGAGCCCTTGGATGCAGCGATCATCGAG  
GAGGAAGTAGATGAGCTCCGACGGTACTGCCAGGAGGTCTTCGGGCGTGTGGAAAGATAACCATAAGAACTGATC  
CGCCTGCCTCTCCAGACGATGAGCACGACCTCTCAGACAGGGAGCTGGAGCTGGAAGACTCTGCAGCTCTGTCTG  
GACCTGCACTGGCACGACCGCTCTGCAGACAGCCTGCTTTCTCCACAGCCTTCTCCAATCTCTCCCTCTCGCTC  
GCTCAGCCCTTCCGGAGCGAGCGGTGAGGACGAGACACCCCGGTAGTGTGGACTCCATCCCCCTGGAGTGGGAT  
CACGACTATGACCTCAGTCGGGACCTGGAGTCTGCAATGTCCAGAGCTCTGCCCTCTGAGGATGAAGAAGGTCAG  
GATGACAAAGATTTCTACCTCCGGGGAGCTGTTGGCTTATCAGGGGACCACAGTGCCCTAGAGTCACAGATCCGA  
CAACTGGGCAAAGCCCTGGATGATAGCCGTTTTCAGATACAGCAAACCGAAAATATCATTCGCAGCAAAACTCCC  
ACGGGGCCGGAGCTAGACACCAGCTACAAAGGCTACATGAACTGCTGGGCGAATGCAGTAGCAGTATAGACTCC  
GTGAAGAGACTGGAGCACAACTGAAGGAGGAAGAGGAGAGCCTTCTGGCTTTGTTAACCTGCATAGTACCGAA  
ACCCAAACGGCTGGTGTGATTGACCGATGGGAGCTTCTCCAGGCCAGGCATTGAGCAAGGAGTTGAGGATGAAG  
CAGAACCTCCAGAAGTGGCAGCAGTTTAACTCAGACTTGAACAGCATCTGGGCCTGGCTGGGGGACACGGAGGAG  
GAGTTGGAACAGCTCCAGCGTCTGGAACCTCAGCACTGACATCCAGACCATCGAGCTCCAGATCAAAAAGCTCAAG  
GAGCTCCAGAAAGCTGTGGACCACCGCAAAGCCATCATCCTCTCCATCAATCTCTGCAGCCCTGAGTTACCCAG  
GCTGACAGCAAGGAGAGCCGGGACCTGCAGGATCGCTTGTGCGAGATGAATGGGCGCTGGGACCGAGTGTGCTCT  
CTGCTGGAGGAGTGGCGGGGCTGCTGCAGGATGCCCTGATGCAGTGCCAGGGTTTTCCATGAAATGAGCCATGGT  
TTGCTTCTTATGCTGGAGAACATTGAAGAAGGAAAAATGAAATTGTCCCTATTGATTCTAACCTTGATGCAGAG  
ATACTTCAGGACCATCACAAACAGCTTATGCAAATAAAGCATGAGCTGTTGGAATCCCAACTCAGAGTAGCCTCT  
TTGCAAGACATGTCTTGCCAACTACTGGTGAATGCTGAAGGAACAGACTGTTTGAAGCCAAAGAAAAAGTCCAT  
GTTATTGGAAATCGGCTCAAACCTCTCTTGAAGGAGGTGAGTCGTATATCAAGGAAGTGGAGAAGTTATTAGAC  
GTGTCAAGTAGTCAGCAGGATTTGTCTTCTGGTCTTCTGCTGATGAACCTGGACACCTCAGGGTCTGTGAGTCCC  
ACATCAGGAAGGAGCACCCCAAACAGACAGAAAACGCCACGAGGCAAGTGTAGTCTCTCACAGCCTGGACCTCT  
GTCAGCAGTCCACATAGCAGGTCCACAAAAGGTGGCTCCGATTCTCCCTTTCTGAGCCAGGGCCAGGTCCGTCC  
GGCCGCGGCTTCTGTTCAGAGTCTCCGAGCAGCTCTTCCCCCTCAGCTTCTCCTGCTCCTCATCGGGCTT  
GCCTGCCTTGTACCAATGTGAGAGGAAGACTACAGCTGTGCCCTCTCCAACAACCTTTGCCCGGTCAATCCACCCC  
ATGCTCAGATACACGAATGGCCCTCCTCCACTCTGAACTAAGCAGATGCCATCTGCAGAAGTGTGGTAGCATAA  
GGAGGATCGGGTCATAAGCAATCCCAAACCTACCAACAAGAGGACCTTGATCTTGCGAAAGCCCTCGGTGTGGCA  
GCTTTAGCCCTCCTCCAGATCACATGTGTGCAAATTATGGCTTCAGAGGTGGAAGATAAACAGTGACGGGGGAAC  
AAACAGACAACAAGAAGGTTTGGAAAGAAATCTGGTTTGAGACTCTGAACCTTAGCACTAAGGAGATTGAGTAAGG  
ACCTCCAAAGTTCCCCGACTCATGAATTCTGGGCCCTTGGCCATTCTGTGCACAGCCAAGGACTTCAGTAGAC  
CATCTGGGCAGCTTTCCCATGGTGTGCTCCAACCATCAGATAAATGACCTCCCAAGCACCATGTGAGTGTGCT  
ACAATCTACCAACCAACCAGTGTGTAAGAGATTTTAGAACCTTGTAACATACAATTTTAAAGAGCTTATATGGCA  
GCTTCCCTTTTTACCTTGTTTTCCCTTTGGGGCATGATGTTTTAACCTTTGCTTTAGAAAGCACAAGCTGTAAATCTA  
AAAGGCACTTTTTTTAGAGGTATAAAGAAAACTAGATGTAATAAATAAGATCATGGAAGGCTTTATGTGAAAA  
AAGTTGAATGTTATAGT

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**FIGURE 2124A**

GCAGAGTCTGAGTCCCACTCCGCACCCACCCCTCTGTCTGGTACAGCTTACCAAACCAAAGTGCCCAAAGCCGTG  
ACATCCCGGCCGGCGGCTCGCAGGCCCGCCCTCCGCACGTACGGCCCGGGTGCAGTGCCCCCTAGGGGCC  
CCTGGGACGAGGAGGAAGCGCCAGGTCTTCCCGCCGCGCCGCGCCGCCCGCTGCTCCCCTGGCACGCGC  
CCCGCCGCCCTCGGCAGCCGCAGCTCCGTGTCCCTGAGAACCAGCCGTCCCGCGCCATGGGCACGCGTCTGCCG  
CTCGTCTGCGCCAGCTCCGCCGCCCGCCCCAGCCCCCGGGCCCTCCGCGCCGCTCCGTGTGCCCTGTGCGCT  
AGCAGCGGCGGCGGCGGAGGCGGCGGCTGGCCGGGAGGGCTGCTTGGACAGCGGCGGCGCAGGATGGCCAG  
GCCCCGAGCAGCTGCAGCCCCGGCGGCCGAACGCCCCGCGGCGGGGACTCCATCGTCAGAGAAGTCATTCAAGAT  
TCAAAAGAAGTTCTAAGTTTATTGCAAGAAAAAACCTGCCTTCAAGCCGGTTCTTGCAATTATCCAGGCAGGT  
GACGACAACTTGATGCAGGAAATCAACCAGAATTTGGCTGAGGAGGCTGGTCTGAACATCACTCACATTTGCCTC  
CCTCCAGATAGCAGTGAAGCCGAGATTATAGATGAAATCTTAAAGATCAATGAAGATACCAGAGTACATGGCCTT  
GCCCTTCAGATCTCTGAGAACTTGTTTAGCAACAAAGTCTTCAATGCCTTGAAACCAGAAAAAGATGTGGATGGA  
GTAACAGACATAAACCTGGGGAAGCTGGTGCGAGGGGATGCCCATGAATGTTTGTTCACCTGTTGCCAAAGCT  
GTAATTGAACCTCTTGAAAAATCAGTAGGTGTCAACCTAGATGGAAAGAAGATTTTGGTAGTGGGGGCCCATGGG  
TCTTTGGAAGCTGCTCTACAATGCCTGTTCCAGAGAAAAAGGTCCATGACAATGAGCATCCAGTGGAAAAACAGC  
CAGCTTCAAAGCAAGCTTACGAGGGCTGACATTGTGGTCTTAGGCTCACCTAAGCCAGAAGAGATTCCCCCTTACT  
TGGATACAACCAGGAACCTACTGTTCTCAACTGCTCCCATGACTTCCTGTGAGGGAAGGTTGGGTGTGGCTCTCCA  
AGAATACATTTTGGTGGACTCATTGAGGAAGATGATGTGATTCTCCTTGCTGCAGCTCTGCGAATTCAGAACATG  
GTCAGTAGTGAAGGAGATGGCTTCGTGAACAGCAGCACAGGCGGTGGAGACTTCACTGCTTGAAACTTCAGCCT  
CTCTCCCCTGTGCCAAGTGACATTGAGATTTCAAGAGGACAACTCCAAAAGCTGTGGATGTCTTGCCAAGGAG  
ATTGGATTGCTTGAGATGAAATTGAAATCTATGGCAAAAGCAAAGCCAAAGTACGTTTGTCCGTGCTAGAAAGG  
TTAAAGGATCAAGCAGATGGAAAATACGTCTTAGTTGCTGGGATCACACCCACCCCTCTTGAGAGAAGGGAAGAGC  
ACAGTCACCATCGGGCTTGTGAGGCTCTGACCGCACACCTGAATGTCAACTCCTTTGCCTGCTTGAGGCAGCCT  
TCCCAAGGACCGACGTTTGGAGTGAAAGGAGGAGCCGCGGGTGGTGGATATGCCAGGTCATCCCCATGGAGGAG  
TTCAACCTTCACTTGACTGGAGACATCCACGCCATCACCGTGCCAATAACTTGCTGGCTGCCGCCATCGACACG  
AGGATTCTTCATGAAAACACGCAAACAGATAAGGCTCTGTATAATCGGCTGGTTCCTTTAGTGAATGGTGTGAGA  
GAATTTTCAGAAATTCAGCTTGCTCGGCTAAAAAACTGGGAATAAATAAGACTGATCCGAGCACACTGACAGAA  
GAGGAAGTGAGTAAATTTGCCCGTCTCGACATCGACCCATCTACCATCACGTGGCAGAGAGTATTGGATACAAAT  
GACCGATTTCTACGAAAAATAACCATCGGGCAGGGAAACACAGAGAAGGGCCATTACCGGCAGGCGCAGTTTGAC  
ATCGCAGTGGCCAGCGAGATCATGGCGGTGCTGGCCCTGACGGACAGCCTCGCAGACATGAAGGCACGGCTGGGA  
AGGATGGTGGTGGCCAGTGACAAAAGCGGGCAGCCTGTGACAGCAGATGATTTGGGGGTGACAGGTGCTTTGACA  
GTTTTGATGAAAGATGCAATAAAACCAACCTGATGCAGACCCTGGAAGGGACACCTGTGTTGCTGCATGCGGGC  
CCTTTTGCTAACATTGCTCACGGCAACTCTTCAGTGTGGCTGATAAAATTGCCCTGAAACTGGTTGGTGAAGAA  
GGATTTGTAGTGACCGAAGCTGGCTTTGGTGTGACATCGGAATGGAGAAATCTTCAACATCAAGTGCCGAGCT  
TCCGGCTTGGTGCCCAACGTGGTTGTGTTAGTGGCAACGGTGCAGCTCTGAAGATGCATGGAGGCGGGCCAAGT  
GTAACGGCTGGTGTTCCTCTTAAGAAAGAATATACAGAGGAGAACATCCAGCTGGTGGCAGACGGCTGCTGTAAC  
CTCCAGAAGCAAATTCAGATCACTCAGCTCTTTGGGGTTCCCGTTGTGGTGGCTCTGAATGCTTCAAGACCGAC  
ACCCGCGCTGAGATTGACTTGGTGTGTGAGCTTGCAAAGCGGGCTGGTGCCTTTGATGCAGTCCCCTGCTATCAC  
TGGTCCGTTGGTGGAAAAGGATCGGTGGACTTGGCTCGGGCTGTGAGAGAGGCTGCGAGTAAAAAGAACCGATT  
CAGTTCTGTATGATGTTTCAAGTTCCAATTGTGGACAAGATAAGGACCATTGCTCAGGCTGTCTATGGAGCCAAA  
GATATTGAACCTCTCTCTGAGGCACAAGCCAAAATAGATCGTTTACACTCAACAGGGTTTTGGAAATTTGCCCATC  
TGCATGGCAAAGACCCACCTTTCTCTATCTCACCAACCTGACAAAAAGGTGTGCCAAGGGACTTCATCTTACCT  
ATCAGTGACGTCCGGGCCAGCATAGGCGCTGGGTTCATTTACCCTTTGGTCGGAACGATGAGCACCATGCCAGGA  
CTGCCACCCGGCCCTGCTTTTATGACATAGATCTTGATACCGAAACAGAACAAAGTTAAAGGCTTGTCTAAGTG  
GACAAGGCTCTCACAGGACCCGATGCAGACTCTGAAACAGACTACTCTTTGCCTTTTTGCTGCAGTTGGAGAAG  
AAACTGAATTTGAAAAATGTCTGTTATGCAATGCTGGAGACATGGTGAATAGGCCAAAGATTTCTTCTTCGTT  
AAGATGAATTTGTTACAGTGGAGTATGGTGTTCGGCAAAAGGACCTCCACCAAGACTGAAAGAACTAATTTA  
TTTCTGTTTCTGTGGAGTTTCCATTATTTCTACTGCTTACACTTTAGAATGTTTATTTTATGGGGACTAAGGGAT  
TAGGAGTGTGAACATAAAGGTAACATTTTCCACTCTCAAGTTTCTACTTTGTCTTTGAACTGAAAATAAACATG



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**FIGURE 2124B**

GATCTAGAAAACC

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**FIGURE 2125**

MVSSGRRWLREQQHRRWRLHCLKLQPLSPVPSDIEISRGQTPKAVDVLAK EIGLLADEIEIYGKSKAKVRLSVLE  
RLKDQADGKYVLVAGITPTPLGEGKSTVTIGLVQALTAHLNVNSFACLRQPSQGP TFGVKGGAAGGGYAQVIPME  
EFNLHLTGDIHAITAANNLLAAAIDTRILHENTQTDKALYNRLVPLVNGVREFSEIQLARLKIIRNWE

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**FIGURE 2126**

ACTCTTGGGAAAAC TGCTGGGCACCGTCGTCGCGCTGAAGGTGGTTCTGTACCTGCTCCGAGTGTGCTTAGCGAT  
GGCCTGGAAATCCGGCGGCGCCAGCCACTCGGAGCTAATCCACAATCTCCGCAAAAATGGAATCATCAAGACAGA  
TAAAGTATTTGAAGTGATGCTGGCTACAGACCGCTCCCACTATGCAAAATGTAACCCATACATGGATTCTCCACA  
ATCAATAGGTTTCCAAGCAACAATCAGTGCTCCACACATGCATGCATATGCGCTAGAACTTCTATTTGATCAGTT  
GCATGAAGGAGCTAAAGCTCTTGATGTAGGATCTGGAAGTGAATCCTTACTGCATGTTTTGCACGTATGGTTGG  
ATGTACTGGAAAAGTCATAGGAATTGATCACATTAAAGAGCTAGTAGATGACTCAGTAAATAATGTCAGGAAGGA  
CGATCCAACACTTCTGTCTTCAGGGAGAGTACAGCTTGTTGTGGGGGATGGAAGAATGGGATATGCTGAAGAAGC  
CCCTTATGATGCCATTCTATGTGGGAGCTGCAGCCCCTGTTGTACCCAGGCGCTAATAGATCAGTTAAAGCCCGG  
AGGAAGATTGATATTGCCGTGTGGTCCTGCAGGCGGAAACCAAATGTTGGAGCAGTATGACAAGCTACAAGATGG  
CAGCATCAAAATGAAGCCTCTGATGGGGGTGATATACGTGCCTTTAACAGATAAAAGAAAAGCAGTGGTCCAGGTG  
GAAGTGAATTTTATCTTCTGCTCTTTCTTCTTCCACACATGCAAGGGATGAATTGTAAAAGCAACATCAGCTTGAC  
CAGTATAAAATTACAGTGGATTGCTCATCTCAGTCCTCAAAGCTTTTTGAAAACCAACACCATCACAGCTTGTTT  
TGGACTTTGTACACTGTTATTTTCAGCATGAAAATGTGTGTTTTTTAGGGTTTCTGATTCTTCAAAGAGGCAC  
AGAGCCAAATTGGTAGAGGAAGGATGCAAAGTATAAATTTGTGTAATATTACTTTAACATGCCCATATTTTACTT  
GGAAATATTAAAAGAAAGGGTTCTGTAAAATGGAAAACCTTAGTTTGTGAATTGATTTTGAGGAGTGGTTTTTCTT  
TTCTTGGACACTTAATTCTGTTCTGATATTAATTTATCAGATTGCTTTTGTGCATTGGATAACACCACCATTCAC  
AAGTTAAGATTCTTGGTATTTGGATATCTGTTAGATGCTACTAAGAAAATAGAGATGAGCTTTCTTTTTAAAGCT  
TTTGATGTGGTGTCATAGAATAGCATGTTGTAGATACAATCAGCTGCTTTGTTACCTTAAAACCTAGGCATTTGTA  
AATATTAAACCTTAAGATGGCAGGTGATGTCTGTAAACACTCAGCTGTTTCAAGATTGGACATAACTGACTTAGTT  
CTTCCCTTCTCTCTCTCTCAAAATTATAGGAGACTTGTAGTTTAGTGTGGTTTTCTGTTTCTAATTTGCTGCTGA  
TAATGTATATGAACCTAACATGCTGTGTAAGCTGTGTCCTAGTTCTTGAACAGTTTATGCAGTGCTGCTTTGCCA  
AATAAAGTTAAAAGTAAAAGAGGC

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**FIGURE 2127**

MAWKSGGASHSELIHNLRKNGIIKTDKVFVMLATDRSHYAKCNPYMDSPQSIGFQATISAPMHAYALELLFDQ  
LHEGAKALDVGSGSGILTACFARMVGCTGKVIDHIKELVDDSVNNVRKDDPTLLSSGRVQLVVG DGRMGYAE  
APYDAIHVGAAAPVVPQALIDQLKPGGRLILPVGPAGGNQMLEQYDKLQDGSIKMKPLMGVIYVPLTDKEKQWSR  
WK

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**FIGURE 2128A**

ACTCTGGCAAGTTGCGGGCGCGGGGAGCTGTGCGGGCAGCGGCCCTCGGGAGGACGTGGCCCCGGCCCCCG  
CCCGCAGTGGGCCCCGACCTCATGCCCTGAGCAAAGGGCTGCGGCTGCTGGGGCGCCTGGGGGCCGAGGGGGAC  
TGTAGCGTGCTGCTGGAGGCGCGCGGCCGACGACTGCCTGCTGTTTCGAGGCCGGCACGGTGGCCACGCTGGCT  
CCAGAAGAAAAGGAAGTCATTAAAGGACAGTATGGCAAGCTCACGGACGCGTACGGCTGCCTGGGGGAGCTGAGG  
CTGAAATCTGGTGGCACGTCTCTGAGCTTCCTGGTGTGGTGACAGGCTGCACATCTGTGGGCAGAATTCAGAT  
GCTGAAATCTACAAAATCACTGCCACTGACTTTTACCCTCTTCAGGAAGAGGCCAAGGAGGAGGAACGCCTCATA  
GCTTTGAAGAAAATCCTCAGCTCGGGGGTGTTCATTTCTCATGGCCAAACGATGGGTCTCGCTTTGACCTGACT  
GTCCGCACGCAGAAGCAGGGGGATGACAGCTCTGAATGGGGGAACCTCCTTCTTGAACACGCTGTTGCACGTG  
CCCTTGAGGCAGCACCAGGTGAGCTGCTGTGACTGGCTGCTGAAGATCAICTGCGGGGTGGTCACCATCCGCACC  
GTGTATGCCTCCCACAAGCAGGCCAAGGCCTGCCTCGTCTCTCGCGTTAGCTGTGAGCGCACAGGCACTCGCTTC  
CACACCCGTGGCGTGAAACGACGACGGCCATGTGTCCAACCTTCGTGGAGACAGAGCAGATGATTTACATGGACGAT  
GGAGTGTCTATCTTTTGTCCAGATCAGAGGCTCCGTTCCGCTGTTCTGGGAACAGCCAGGGCTTCAGGTTGGCTCC  
CATCATCTGAGACTCCACAGAGGCTTGAAGCCAAATGCCCTGCTTTTCGACAGGCACATGGTGTCTCTGAAGGAG  
CAGTACGGGCAGCAGGTGGTGTGAACCTTCTGGGAAGCAGAGGCGGAGAGGAGGTGCTCAACAGAGCCTTCAAG  
AAGCTGCTCTGGGCTTCTTGCCACGCGGGCGACACGCCTATGATCAATTTTGACTTCCATCAGTTTGCCAAAGGT  
GGGAAGCTAGAGAAATTGGAGACCTCTTGAGGCCACAGTTAAAGCTGCACTGGGAAGACTTCGATGTGTTTACA  
AAGGGGGAGAACGTCAGTCCACGTTTTTCAGAAAGGCACTTTTCGGATGAAGTGTCTTGACTGCCTGGACCGAACC  
AACACTGTGCAGAGCTTCATCGCGCTCGAGGTCTGCATCTGCAGCTCAAGACCCTGGGGCTGAGTTCAAAAACC  
ATCGTTGACCGCTTTGTGGAGTCCTTCAAAGCCATGTGGTCTCTGAATGGCCACAGCCTGAGCAAGGTGTTTACA  
GGCAGCAGAGCCCTGGAAGGGAAGGCCAAGGTGGGGAAGCTGAAGGATGGAGCCCGGTCCATGTCTCGAACCATC  
CAGTCCAACCTTCTTCGACGGGGTGAAGCAGGAGGCCATCAAGCTGCTGCTGGTGGGGACGTCTACGGCGAGGAG  
GTGGCAGACAAAGGGGGCATGCTGCTGGACAGCACGGCGCTCCTGGTGAAGTCCAGGATCCTGAAAGCTATGACT  
GAGCGTCAGTCCGAATTCACAAATTTCAAGCGGATCCGGATTGCTATGGGGACCTGGAACGTGAACGGAGGAAAG  
CAGTTCCGGAGCAACGTGCTCAGGACGGCGGAGCTGACAGACTGGCTGCTCGACTCGCCCCAGCTCTCGGGAGCT  
ACCGACTCCCAGGATGACAGCAGCCAGCTGACATATTTGCTGTGGGGTTTGAAGAGATGGTGAATTGAGCGCA  
GGGAATATTGTCAATGCCAGTACTACCAACAAGAAGATGTGGGGTGAACAGCTTCAGAAAGCCATCTCAGCTCT  
CATAGATACATTCTGTTGACTTCGGCACAGCTGGTGGGCGTCTGTCTTTATATCTTTGTACGTCCATACCATGTC  
CCGTTTCATCAGGGACGTAGCCATCGACACAGTGAAGACGGGCATGGGGGGCAAGGCGGGGAACAAGGGCGCGCTC  
GGCATCCGCTTCCAGTTCCACAGCACCAGCTTCTGCTTCATATGTAGTCACCTGACGGCCGGGCAGTCCCAGGTG  
AAGGAGCGGAATGAAGACTACAAGGAGATCACCCAGAACTCTGCTTCCCAATGGGGAGAAATGTTTTTCTCAT  
GATTATGTATTTTGGTGTGGCGATTTCAACTACCGCATTGATCTTACTTATGAAGAAGTCTTCTATTTTGTAA  
CGCCAAGACTGGAAGAACTTCTGGAATTTGATCAACTACAGCTACAGAAATCAAGTGGAAAAATTTTAAAGGAC  
TTTCACGAAGGAGCCATTAACCTTTGGACCCACCTACAAGTATGACGTTGGCTCAGCCGCCTACGATACAAGCGAC  
AAATGCCGCACCCCCGCCTGGACAGACAGGGTGTGTGGTGGAGGAAGAAACATCCCTTTGATAAAACAGCTGGA  
GAACTCAACCTTCTAGACAGTGATCTAGATGTTGACACCAAAGTCAGACACACCTGGTCTCCTGGTGCCCTGCAG  
TATTATGGTCGTGCGGAGCTACAAGCGTCTGATCACAGACCTGTGCTGGCGATCGTGGAGGTGGAAGTTTCAAGAA  
GTCGATGTGGGTGCTCGGGAGAGGGTTTTCCAGGAAGTGTCTCCTTCCAGGGCCCCCTGGATGCCACTGTTGTA  
GTAAACCTTCAATCACCGACCTTAGAAGAGAAAAACGAGTTTCCAGAGGACCTGCGTACTGAGCTCATGCAGACC  
TTGGGGAGTTATGGGACAATTGTTCTTGTGTCAGGATCAACCAAGGGCAGATGCTGGTAACTTTTGCAGACAGTCAC  
TCGGCTCTCAGTGTCTTGACGTGGACGTGGACGGTATGAAGGTGAAAGGCAGAGCAGTGAAGATTAGACCGAAGACCAAG  
GACTGGCTGAAAGGTTTTCGAGAGGAGATCATTCGGAACGAGACAGCATGGCCCCCGTGTCTCCCACTGCCAAC  
TCCTGTTTGTGCTGGAGGAAAACTTTGACTTCACAAGTTTGGACTATGAGTCAGAAAGGGGATATTCTTGAAGACGAT  
GAAGACTACTTGGTGGATGAATTCAATCAGCCTGGAGTCTCGGACAGTGAACCTCGGGGGAGACGACCTCTCTGAT  
GTCCCCGGCCCCACAGCACTGGCTCCTCCCAGCAAGTCACCTGCTCTACCAAAAAAGAGCAGCATCCAACGTAC  
AAAGATGACGCGGACCTGGTGGAGCTCAAGCGGGAGCTGGAAGCCGTGCGGGAGTTCCGCCACCGTTCTCCGAGC  
AGGTCTCTGTGCGGTCCCCAACCGGCCTCGGCCACCTCAACCCCCGAGAGACCCCCCTCCAACCGGTTTAAATG  
GTGAAAAAGTCGGCTTCAGATGCGTCCATCTCCTCCGGCACCCATGGACAGTATTCAATTTTGCAGACGGCAAGA  
CTTCTACCAGGAGCACCTCAGCAACCTCCCAAGGCTCGGACTGGAATAAGTAAACCTTATAATGTCAAGCAGATC

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**FIGURE 2128B**

AAAACCACCAATGCCAGGAGGCAGAAGCAGCAATCCGGTGTCTCCTGGAAGCCAGAGGAGGTGCCTCCGAAGAA  
GCCCTAAGTGCCGTGGCCCCAAGGGACCTTGAAGCATCCTCTGAACCAGAGCCCCACACCGGGGGCAGCCAAACCA  
GAGACCCACAGGCGCCCCCACTCCTTCCCCGTGGCCCCCAGCCAGAGTTCTGCCATCAAGAAGCCAACCTTG  
AGAAGGACAGGAAAGCCCCCTGTCACCGGAAGAACAGTTTGAGCAACAGACTGTCCATTTTACAATCGGGCCCCCG  
GAGACAAGCGTTGAGGCCCCCTCCTGTCGTGACAGCCCCCTCGAGTCCCTCCTGTTCCCAAACCAAGAACATTTTCAG  
CCTGGGAAAGCTGCAGAGAGGCCAAGCCACAGGAAGCCAGCATCAGACGAAGCCCCCTCCTGGGGCAGGAGCCTCT  
GTGCCACCACCTCTGGAGGCGCCGCTCTTGTGCCAAAGGTACCCCCGAGGAGGAAGAAGTCAGCCCCCGCAGCC  
TTCCACCTGCAGGTCTGTCAGAGCAACAGCCAGCTTCTCCAGGGCCTCACTTACAATAGCAGTGACAGCCCCCTCT  
GGGCACCCACCTGCCGCGGGCACCCTTCTCCACAAGGGGACTTTCTCAGCACTTCATCTGCTACAAGCCCCGAC  
AGCGATGGCACCAAAGCGATGAAGCCAGAGGCAGCCCCACTTCTTGGTGATTATCAGGACCCCTTCTGGAACCTT  
CTTCACCACCCTAAACTGTTGAATAACACTTGGCTTTCTAAGAGCTCAGACCCCTTTGGACTCAGGAACCAGGAGC  
CCAAAAGAGATCCCATAGACCCAGTGTGAGCTGGCGCTTCAGCTGCCAAGGCAGAGCTGCCACCAGATCATGAA  
CACAAAACCTTAGGTCACTGGGTGACAATCAGTGACCAAGAAAAGAGGACAGCACTGCAGGTGTTTGACCCACTG  
GCAAAAACATGACTGAGCAGCTTTGAAGGCTGCAGTCCATAGAAATGCATACCTTCTCCCTCTAGACATCCCTC  
CACCAGAAGAGACATCTATTTAAAGGCACACTGGCCAAAACGTTTGTGCATCTGTCACTCTCGTGTAGTTTACAA  
AAATCGTGTCTCTTATTTCAGTAAGATGGTTACTCAGCCACCAAAATATATTTCACTCAAGGCTTGTACATCTGAA  
GTTTGCTCTTCAAGGAATGGGAACCTTCTGTAAATTCGGTGTATGGATTTTAAGAAAGGAATCTAGCCAAATGA  
GGTCCAAGAAGTCTCACCCATTGAATTTTAAATGGCTGTTTCAAGTTCATGTTGTACGTGATGGAGATTTGTCTT  
TTGTTTTATTGCAATTTTACAGATTTGGTATAACATTTTGGGGAGCCACCTGAAGGTTGATGTATAAAGTAAGGA  
TTAGAGAAAGAGGTGCTTGTGACCATTAGTAGCTGTCTGGCCCACTTAAACAAGGTTACAAAAAATCAGAGTCG  
GAAGCAGCCAAATAGGTCAACCTAATGACTAGACTGTACATTCCCATGAGCCTTCATGTTTAAAGTGTGTACATGT  
GCGTTAACCTTGATGATGCGTGAATCCCGAGGGAGCCGGTGGCATAACCGTTAGCTTAACCTTAGCTTAAACTA  
GCTGAAGGCTCCTGTGCCATGTCTTAGACATTGCATGCCCTATCAATTACTATAATCCTGAGCCATGGTGTGCTA  
CTGAAACCAATTTTATCCACCATCTAGTCTTATTAAATGAAACCTCACGGATCCTTTGTTCCGCTTATATTCC  
ATGCATACCACATAAAAGCACACAGTGCAGAAAACCTCTTGCTGATACGCGATATTGATTCTCATTGTTAGAATATG  
GAGAGTGTTCAGCCTCGTCTGTCCGGCTGGAGCTTCGGGATGGAAAGTGCTATGTGTCCCTGCATATAAGAATC  
ACCAGGCCAGTGTTCCTGGGTTTGTCTGTCTATATGTTTGTCTATATTTTTTGCTTATACATTTTTCCACGTTT  
CCAACAGCACTTCTCACCTATTCAATAACTGAAAAAGACATTACCATAGTGCTTTACATTTTTAAAGTAATGTTA  
CAAGGTCTGGAATCCATTTGGAGCAGATACCGTGTTTTTCGCTATTTAATAAGAAGTTCAGTAGTGAAATCTTACT  
GTACCGCTGTGTATCTGGGAGCCTCGTACAGAGGCTCGCACAGCAGTGATCAAGTGTATCCCTTACGTGACT  
GGGGATGTCTGCTCTAAAGCTGACTGCTAGGATAGTAAGGATCATCTTGCTGGGCTATGCCACTGTCTTGTT  
ACCAATTAGACATCTGGAATTTTATAATTAGTTTTTCACTGTCAAGATATATTGCAGATTACTTAAATAT  
GGCCATCAAAACAAAAGTTACAACACGTATCTCTTTTCACTGAAAACCTAATACCTGGAAAAGGATAAAAAA  
AAGGAATCCGTGACCCACAGAGCTAGACAGATAAGATGCATAGTTGACCAGTCATAAAAGGCGGTGTTTAGGTGA  
TCAGGATGCCGTGGTGGCATTACGTGCTTTATATGATTTTTACCTCTGTAACAAACACAAGAAATAAACAGAA  
TGGTCTTAACAGAGTTTGGGGGAGAGAGCAAGATGGGTTCCCTTGGAGAAGCTGATTGCCAAGATGCACATCGC  
TATTAACAGCCAGAGTCATAAATGAAATGAAATGAAGAATTCATTCAAATGCTCTTTTCCCTATAACCTCTTTT  
CTCACCAAAAAGGAGATAAATTTGAAAACAGATAAATGTAACAACCAGTCAAAGAAGCAGGGGAAAAGTAAGCTC  
CTCCAAAGTTGCTTGCAGTGCTGGAATAGATCTCATTTTTAGGTTTTCTCTCGTTCCAGATACCAATAAATG  
GGACAGAGAATAAAATTTTTGTTAAATATGTGCTCATCTCCTAAGTAGCTCTTCAGAGTCTGACCGTAAGTAA  
AACACACAGAATTGTGTTGACTGGGGGAGGTGAATCACAAAAAGTTACGAGGAGTTTAAAGAGTTAAATATTATT  
TGATCGTGGCTGTCAAATTTAGTGAACAACATAGATTGGATTTGGAGTTGGTAGTAGGTATGGTTCTCATACCAG  
AATTCTCTTAAAAAAGGACAAATTTGGAATTGCCTTATTTATTTTTAAATCAATGCTTACTAGTTGGT  
AGGATTTCCAGGTGAGCAGCAGGTTGATTAAATAATCTTGACAATGAGCAGCTGCCATCTTGGGGGATTTTCAAT  
CTGTGGTTTTTTAAATGTTTCGTCTTTGATGCTACCATCCAGGGCTTCTTATTGTGACCTTGTAGCCTATTTTGT  
TCCTGCTGTTCTCTAACATGGTGCAGTTCACGCAGACTGGTTTAGGTACTTCACAACTCACCATTGTCTCTCTGA  
CCCCAAGCCTAGTCCCTTTTACATCACCATCTTCTCAGACTTCTTGCTTATTCTTAAATATGTTTTGGTTAATG  
ATTGAATTAGGACATCAGCTTAAGCAATTCCTGTAACGGTTAACGTTGTTGAAGTTCAAGGCACATAATAAAT

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**FIGURE 2128C**

TCTCCCTGATGTGTGTGTAAGTATAAACAAAGTAATGTATCAAAGCGTTCACCTTTATAATGAAGTCATTTTCATTG  
GGAAGGAAAGCTGCAAAGATTATTGGGGGACTAGTGATTAATAAAATCCTGTAATATTTTTGAAGTGAAAATTG  
TACTGAAATTGTACATGATACCTATTAAATGTTTTTGCTTTTTTT

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**FIGURE 2129**

MALSKGLRLLGRLGAEGDCSVLLEARGRDDCLLFEAGTVATLAPEEKEVIKQYGKLTDAYGCLGELRLKSGGTS  
LSFLVLVTGCTSVGRIPDAEIIYKITATDFYPLQEEAKEEERLIALKKILSSGVFYFSWPNDGSRFDLTVRTQKQG  
DDSSSEWGNSSFFWNQLLHVPLRQHQQVSCCDWLLKIIICGVVTIRTIVYASHKQAKACLVSRVSCERTGTRFHTRGVND  
DGHVSNFVETEQMIYMDDGVSSFFVQIRGSVPLFWEQPGLOVGSHHRLRLHRLGLEANAPAFDRHMLLKEQYQQVV  
VNLLGSRGGEEVLNRAFKKLLWASCHAGDTPMINFDFHQFAKGGKLEKLETLLRPQLKLHWEDFDVFTKGENVSP  
RFQKGTLRMNCLDCLDRTNTVQSFIALEVLHLQLKTLGLSSKPIVDRFVESFKAMWSLNGHSLSKVFTGSRALLEG  
KAKVGKLDGARSMSRTIQSNFFDGVKQEAIKLLLVGDVYGEVADKGGMLLDSTALLVTPRILKAMTERQSEFT  
NFKRIRIAMGTWNVNGGKQFRSNVLRTAELTDWLLDSPQLSGATDSQDDSSPADIFAVGFEEVVELSAGNIVNAS  
TTNKKMWGEQLQKAISRSHRYILLTSAQLVGVCLYIFVRPHYVPPFIRDVAIDTVKTGMGGKAGNKGAVGIRFQFH  
STSFCFICSHLTAGQSQVKERNEDYKEITQKLCFPMGRNVFSDHYVFWCGDFNYRIDLTYYEVFYFVKRQDWKKL  
LEFDQLQLQKSSGKIFKDFHEGAINFGPTYKYDVGSAAYDTSKCRTPAWTDRVLWWRKKHPFDKTAGELNLLDS  
DLDDVDTKVRHTWSPGALQYYGRAELQASDHRPVLAIVEVEVQEVVDVGARERVFQEVSSFQGPLDATVVVNLQSPT  
LEEKNEFPEDLRTELMQTLGSYGTIVLVRINQGQMLVTFADSHSALSVDVDGMKVKGRAVKIRPKTKDWLKGRL  
EEIIRKRDSMAPVSPTANSCLLEENFDFTSLDYESEGDILEDDEDYLVDENQPGVSDSELGGDDLSDVPGPTAL  
APPSKSPALTKKKQHPTYKDDADLVELKRELEAVGEFRHRSPSRSLSVNRP RP PPQPPQRPPTGLMVKKSASD  
ASISSGTHGQYSILQTARLLPGAPQQPPKARTGISKPYNVKQIKTTNAQEAEAAIRCLLEARGGASEEALS AVAP  
RDLEASSEPEPTPGAAPKPTPQAPPLPRRPPRPVPAIKKPTLRRTGKPLSPEEQFEQQT VHF TIGPPETSVEAP  
PVVTAPRVPPVPKPRTFQPGKAAERPSHRKPASDEAPPGAGASVPPPLEAPPLVPKVP RRKKSAPAAFHLQVLQ  
SNSQLLQGLTYNSSDSPSGHPPAAGTVFPQGDFLSTSSATSPDSDGTKAMKPEAAPLLGDYQDPFWNLLHHPKLL  
NNTWLSKSSDPLDSGTRSPKRDPIDPVSAGASAAKAEPPDHEHKT LGHWVTISDQEKRTALQVFDPLAKT



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**FIGURE 2130**

AGGCAGGGCGGGCGGGCGCTCTAAGGGTTCTGCTCTGACTCCAGGTTGGGACAGCGTCTTCGCTGCTGCTGGATA  
GTCGTGTTTTTCGGGGATCGAGGATACTCACCAGAAACCGAAAATGCCGAAACCAATCAATGTCCGAGTTACCACC  
ATGGATGCAGAGCTGGAGTTTGCAATCCAGCCAAATACAACCTGAAAAACAGCTTTTTGATCAGGTGGTAAAGACT  
ATCGGCCTCCGGGAAGTGTGGTACTTTGGCCTCCACTATGTGGATAATAAAGGATTTCTACCTGGCTGAAGCTG  
GATAAGAAGGTGTCTGCCCAGGAGGTCAGGAAGGAGAATCCCCTCCAGTTCAAGTTCCGGGCCAAGTTCTACCCCT  
GAAGATGTGGCTGAGGAGCTCATCCAGGACATCACCAGAAACTTTTCTTCTCCAAGTGAAGGAAGGAATCCTT  
AGCGATGAGATCTACTGCCCCCTGAGACTGCCGTGCTCTTGGGGTCTACGCTGTGCAGGCCAAGTTTGGGGAC  
TACAACAAAGAAGTGACAAGTCTGGGTACCTCAGCTCTGAGCGGCTGATCCCTCAAAGAGTGATGGACCAGCAC  
AAACTTACCAGGGACAGTGGGAGGACCGGATCCAGGTGTGGCATGCGGAACACCGTGGGATGCTCAAAGATAAT  
GCTATGTTGGAATACCTGAAGATTGCTCAGGACCTGGAAATGTATGGAATCAACTATTTTCGAGATAAAAAACAAG  
AAAGGAACAGACCTTTGGCTTGGAGTTGATGCCCTTGGACTGAATATTTATGAGAAAGATGATAAGTTAACCCCA  
AAGATTGGCTTTCTTGGAGTGAAATCAGGAACATCTCTTTCAATGACAAAAAGTTTGTATTAAACCCATCGAC  
AAGAAGGCACCTGACTTTGTGTTTTATGCCCCACGTCTGAGAATCAACAAGCGGATCCTGCAGCTCTGCATGGGC  
AACCATGAGTTGTATATGCGCCGAGGAAGCCTGACACCATCGAGGTGCAGCAGATGAAGGCCAGGCCCGGGAG  
GAGAAGCATCAGAAGCAGCTGGAGCGGCAACAGCTGGAAACAGAGAAGAAAAGGAGAGAAAACCGTGGAGAGAGAG  
AAAGAGCAGATGATGCGCGAGAAGGAGGAGTTGATGCTGCGGCTGCAGGACTATGAGGAGAAGACAAAGAAGGCA  
GAGAGAGAGCTCTCGGAGCAGATTGAGAGGGCCCTGCAGCTGGAGGAGGAGAGGAAGCGGGCACAGGAGGAGGCC  
GAGCGCCTAGAGGCTGACCGTATGGCTGCACTGCGGGCTAAGGAGGAGCTGGAGAGACAGGCGGTGGATCAGATA  
AAGAGCCAGGAGCAGCTGGCTGCGGAGCTTGCAAGAATACACTGCCAAGATTGCCCTCCTGGAAGAGGCGCGGAGG  
CGCAAGGAGGATGAAGTTGAAGAGTGGCAGCACAGGGCCAAAGAAGCCAGGATGACCTGGTGAAGACCAAGGAG  
GAGCTGCACCTGGTGATGACAGCACCCCCGCCCCACCACCCCCGTGTACGAGCCGGTGAGCTACCATGTCCAG  
GAGAGCTTGAGGATGAGGGCGCAGAGCCACGGGCTACAGCGCGGAGCTGTCTAGTGAGGGCATCCGGGATGAC  
CGCAATGAGGAGAAGCGCATCACTGAGGCAGAGAAGAACGAGCGTGTGCAGCGGCAGCTGCTGACGCTGAGCAGC  
GAGCTGTCCCAGGCCCGAGATGAGAATAAGAGGACCCACAATGACATCATCCACAACGAGAACATGAGGCAAGGC  
CGGGACAAGTACAAGACGCTGCGGCAGATCCGGCAGGGCAACACCAAGCAGCGCATCGACGAGTTGAGAGCCCTG  
TAACAGCCAGGCCAGGACCAAGGGCAGAGGGGTGCTCATAGCGGGCGCTGCCAGCCCCGCCACGCTTGTGTCTTT  
AGTGCTCCAAGTCTAGGAACTCCCTCAGATCCCAGTTCCTTTAGAAAGCAGTTACCCAACAGAAACATTCTGGGC  
TGGGAACCAGGGAGGCGCCCTGGTTTGTGTTTTCCCAAGTTGTAATAGTGCCAAGCAGGCCTGATTCTCGCGATTAT  
TCTCGAATCACCTCCTGTGTTGTGCTGGGAGCAGGACTGATTGAATTACGGAAAATGCCTGTAAAGTCTGAGTAA  
GAACTTCATGCTGGCCTGTGTGATACAAGAGTCAGCATCATTAAAGGAAACGTGGCAGGACTTCCATCTGTGCC  
ATACTTGTCTGTATTGAAATGAGCTCAAATTGATTTTTTAATTTCTATGAAGGATCCATCTTTGTATATTTAC  
ATGCTTAGAGGGGTGAAAATTATTTTGAAATTGAGTCTGAAGCACTCTCGCACACACAGTGATTCCCTCCTCCC  
GTCACCTCACGCAGCTGGCAGAGAGCACAGTGATCACCAGCGTGAGTGGTGGAGGAGGACACTTGGATTTTTTTT  
TTTGTTTTTTTTTTTTTTGCTTAACAGTTTTAGAAATACATTGTACTTATACACCTTATTAATGATCAGCTATATA  
CTATTTATATACAAGTGATAATACAGATTTGTAACATTAGTTTTAAAAAGGAAAGTTTTGTTCTGTATATTTTG  
TTACCTTTTACAGAATAAAAGAATTACATATGAAAAACCCCTCTAAACCATGGCACTTGATGTGATGTGGCAGGAG  
GGCAGTGGTGGAGCTGGACCTGCCTGCTGCAGTCACGTGTAAACAGGATTATTATTAGTGTGTTTATGCATGTAAT  
GGACTATGCACACTTTTAATTTTGTGAGATTACACATGCCACTATGAGCTTTCAGACTCCAGCTGTGAAGAGAC  
TCTGTTTGTGTTGTGTTTGTGTTTGCAGTCTCTCTGCCATGGCCTTGGCAGGCTGCTGGAAGGCAGCTTGTG  
GAGGCCGTTGGTTCCGCCCACTCATTCCTTCTCGTGCAGTCTTCTCCTTCACAGCTAAGATGCCATGTGCAGG  
TGGATTCCATGCCGAGACATGAAATAAAAGCTTTGCAAAGGCA

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**FIGURE 2131**

ATCTTCCGGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCTGACATATGTTCTCTAGGCCT  
TTTAGAAAACATGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTACCATGGCAAAACTGGGAGTCTA  
CGATGTTCCCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAA  
TGTGCGTATTGAGCACATTACGCACTCTAAGAGCCGAGATAGCTTCCTGAAACGCGTGAAGGAAAATGATCAGAA  
AAAGAAAGAAGCCAAAGAGAAAGGTACCTGGGTTTCAGCTAAAGCGCCAGCCTGCTCCACCCAGAGAAACACACTT  
TGTGAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCCCTATTAATTCATGGCATAATAGGTGTTAAA  
AAGAAAAATAAA

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**FIGURE 2132**

GGCAGCGCAGGGCAGACGGCGGCAGGAGAAGCAAGATGAATGCAGGCTCAGATCCTGTGGTCATCGTCTCGGCGG  
CGCGGACCATCATAGGTTCCCTTCAATGGTGCCTTAGCTGCTGTTCCCTGTCCAGGACCTGGGCTCCACTGTCATCA  
AAGAAGTCTTGAAGAGGGCCACTGTGGCTCCGGAAGATGTGTCTGAGGTCATCTTTGGACATGTCTTGGCAGCAG  
GCTGTGGGCAGAATCCTGTTAGACAAGCCAGTGTGGGTGCAGGAATTCCTACTCTGTTCCAGCATGGAGCTGCC  
AGATGATCTGTGGGTGAGGCCTAAAAGCTGTGTGCCTTGCAAGTCCAGTCAATAGGGATAGGAGACTCCAGCATTG  
TGGTTGCAGGAGGCATGGAAAATATGAGCAAGGCTCCTCACTTGGCTTACTTGAGAACAGGAGTAAAGATAGGTG  
AGATGCCACTGACTGACAGTATACTCTGTGATGGTCTTACAGATGCATTTTCAAACTGTCATATGGGTATTACAG  
CTGAAAATGTAGCCAAAAAATGGCAAGTGAGTAGAGAAGATCAGGACAAGGTTGCAGTTCTGTCCCAGAACAGGA  
CAGAGAATGCACAGAAAGCTGGCCATTTTGACAAAGAGATTGTACCAGTTTTTGGTGTCAACTAGAAAAGGTCTTA  
TTGAAGTTAAAACAGATGAGTTTCTCGCCATGGGAGCAACATAGAAGCCATGTCCAAGCTAAAGCCTTACTTTC  
TTACTGATGGAACGGGAACAGTCACCCAGCCAATGCTTCAGGAATAAATGATGGTGCTGCAGCTGTCGTTCTTA  
TGAAGAAGTCAGAAGCTGATAAACGTGGGCTTACACCTTTAGCACGGATAGTTTTCTGGTCCCAAGTGGGTGTGG  
AGCCTTCCATTATGGGAATAGGACCAATTCCAGCCATAAAGCAAGCTGTTACAAAAGCAGGTTGGTCACTGGAAG  
ATGTTGACATATTTGAAATCAATGAAGCCTTTGCAGCTGCTCTGCTGCAATAGTTAAAGAACTTGGATTAAACC  
CAGAGAAGGTCAATATTGAAGGAGGGGCTATAGCCTTGGGCCACCCTCTTGGAGCATCTGGCTGTGCAATTCTTG  
TGACCCTGTTACACACACITGGAGAGAATGGGCAGAAGTCGTGGTGTGTCAGCCCTGTGCATTGGGGGTGGGATGG  
GAATAGCAATGTGTGTTTCAAGAGAGAATGAATTGCTTAACTTTGAACAACCTCAATTTCTTTTAACTAATAAA  
GTACTAGGTTGCAATATGTGAAATCAGAGGACCAAAGTACAGATGGAAACCATTTCTTACATCACAAAAACCCAA  
GTTTACAGCTTGTTACTTTTACTTTAATGTGTAATACTCAACTCAAGGTACAAGACAATTGCATTTAACATTGTTAT  
AAATAAAAGGAACATCAGATCAATCATT

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**FIGURE 2133**

MNAGSDPVVIVSAARTIIGSFNGALAAVPVQDLGSTVIKEVLKRATVAPEDVSEVIFGHVLAAGCGQNPVRQASV  
GAGIPYSVPAWSCQMIGSGLKAVCLAVQSIGIGDSSIVVAGGMENMSKAPHLAYLRTGVKIGEMPLTDSILCDG  
LTDAFHNCHMGITAENVAKKWQVSREDQDKVAVLSQNRTEAQAAGHFDKEIVPVLVSTRKGLIEVKTDEFPRHG  
SNIEAMSKLKPYFLTDGTGTVPANASGINDGAAAVLMKKSEADKRGLTPLARIVSWSQVGVEPSIMGIGPIPA  
IKQAVTKAGWSLEDVDIFEINEAFAAVSAAIVKELGLNPEKVNIEGGAIALGHPLGASGCRILVTLHTLERMGR  
SRGVAALCIGGGMGIAMCVQRE

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**FIGURE 2134**

ACGTGTATCGCTGCCGTCAAGATGGAGGGGCCCTTTGTCCGTGTTCCGGTGACCGCAGCACTGGGGAAACGATCCGC  
TCCAAAACGTTATGGCTGCAGCTTCGATTGCCAATATTGTAAAAAGTTCTCTTGGTCCAGTTGGCTTGGATAAA  
ATGTTGGTGGATGATATTGGTGTATGTAACCATTACTAACGATGGTGCAACCATCCTGAAGTTACTGGAGGTAGAA  
CATCCTGCAGCTAAAGTTCTTTGTGAGCTGGCTGATCTGCAAGACAAAGAAGTTGGAGATGGAAGTACTTCAGTG  
GTTATTATTGCAGCAGAACTCCTAAAAAATGCAGATGAATTAGTCAAACAGAAAAATTCATCCCACATCAGTTATT  
AGTGGCTATCGACTTGCTTGCAAGGAAGCAGTGCCTTATATCAATGAAAACCTAATTGTTAACACAGATGAAGT  
GGAAGAGATTGCCTGATTAATGCTGCTAAGACATCCATGTCTTCCAAAATCATTGGAATAAATGGTGATTTCTTT  
GCTAACATGGTAGTAGATGCTGTACTTGCTATTAAATACACAGACATAAGAGGCCAGCCAGCTATCCAGTCAAC  
TCTGTTAATATTTTGAAAGCCCATGGGAGAAGTCAAATGGAGAGTATGCTCATCAGTGGCTATGCACTCAACTGT  
GTGGTGGGATCCCAGGGCATGCCCAAGAGAATCGTAAATGCAAAAATTGCTTGCCTTGACTTCAGCCTGCAAAAA  
ACAAAATGAAGCTTGGTGTACAGGTGGTCATTACAGACCCTGAAAACTGGACCAAATTAGACAGAGAGAATCA  
GATATCACCAAGGAGAGAATTCAGAAGATCCTGGCAACTGGTGCCAATGTTATTCTAACCACTGGTGGAAATTGAT  
GATATGTGTCTGAAGTATTTTGTGGAGGCTGGTGTATGGCAGTTAGAAGAGTTTTAAAAAGGGACCTTAAACGC  
ATTGCCAAAGCTTCTGGAGCAACTATTCTGTCAACCCTGGCCAATTTGGAAGGTGAAGAACTTTTGAAGCTGCA  
ATGTTGGGACAGGCAGAAGAAGTGGTACAGGAGAGAATTTGTGATGATGAGCTGATCTTAATCAAAAATACTAAG  
GCTCGTACGTCTGCATCGATTATCTTACGTGGGGCAAATGATTTTCATGTGTGATGAGATGGAGCGCTCTTTACAT  
GATGCACTTTGTGTAGTGAAGAGAGTTTTGGAGTCAAATCTGTGGTTCCCGGTGGGGGTGCTGTAGAAGCAGCC  
CTTTCCATATACCTTGAAAACTATGCAACCAGCATGGGGTCTCGGGAACAGCTTGCGATTGCAGAGTTTGCAAGA  
TCACTTCTTGTTATTCCCAATACACTAGCAGTTAATGCTGCCCAGGACTCCACAGATCTGGTTGCAAAATTAAGA  
GCTTTTCATAATGAGGCCCAGGTTAACCCAGAACGTAAAAATCTAAATGGATTGGTCTTGATTGAGCAATGGT  
AAACCTCGAGACAACAACAAGCAGGGGTGTTTGAACCAACCATAGTTAAAGTTAAGAGTTTGAAATTTGCAACA  
GAAGCTGCAATCACCATTCTTCGAATTGATGATCTTATTAAATTACATCCAGAAAGTAAAGATGATAAACATGGA  
AGTTATGAAGATGCTGTTCACTCTGGAGCCCTTAATGATTGATCTGATGTTTCTTTTATTATAACAATGTTAAA  
TGCAATTGCTTGTACCTTGAGTTGAGTATTACACATTAAAGTAAAGTACAAGCTGTAAACTTGGGTTTTTGTGA  
TGTAGGAAATGGTTTCCATCTGTACTTTGGTCTCTGATTTTACATATTGCAACCTAGTACTTTATTAGTTTAAA  
AAGAAATTGAGGTTGTTCAAAGTTTAAAGCAATTCATTCTCTCTGAACACACATTGCTATTCCCATCCCACCCCA  
ATGCACAGGGCTGCAACACCACGACTTCTGCCCATTCTCTCCAGTGTGTGTAAACAGGGTCACAAGAATTC

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**FIGURE 2135**

TTTGCTTTTGCTTATTTCCGTCATTTCCTCTCTGCGCGCGGACCTTCCTTTTCCAGATGGTGAGAGCCGCGGG  
GACACCCGACGCCGGGGCAGGCTGATCCACGATCCTGGGTGTGCGTAACGCCGCTGGGGCTCCGTGGGCGAGGG  
ACGTGTGGGGACAGGTGCACCGGAAACTGCCAGACTGGAGAGTTGAGGCATCGGAGGCGCGAGAACAGCACTACT  
ACTGCGGCGAGACGAGCGCGCGCATCCCAAAGCCCGGCCAAATGCGCTCGTCCCTGGGAGGGGAGGGAGGCGCG  
CCTGGAGCGGGGACAGTCTTGGTCCGCGCCCTCCTCCCGGTCTGTGCGGGACCCGGGAGCCGGTCTCG  
AGGTCTCGGTCCAAGGGGCCCTTTTCTCGGAAGGGCGGCGGCCAAGAGCAGGGAAGGTGGATCTCAGGTAGCGA  
GTCTGGGCTTCGGGGACGGCGGGGAGGGGAGCCGGACGGGAGGATCAGCTCCCCCTGGCACCGAGAGCGCGGGAAA  
GAGCCTGCAGTACCGAGTGGACCACCTGCTGAGCGCCGTGGAGAATGAGCTGCAGGCGGGCAGCGAGAAGGGCGA  
CCCCACAGAGCGCGAACTGCGCGTGGGCTGGAGGAGAGCGAGCTGTGGCTGCGCTTCAAGGAGCTCACCAATGA  
GATGATCGTGACCAAGAACGGCAGGAGGATGTTTCCGGTGTGTAAGGTGAACGTGTCTGGCCTGGACCCCAACGC  
CATGTACTCCTTCTGTGCTGGACTTCGTGGCGGCGGACAACCACCGCTGGAAGTACGTGAACGGGGAATGGGTGCC  
GGGGGGCAAGCCGGAGCCGAGGCGCCAGCTGCGTCTACATCCACCCGACTCGCCCAACTTCGGGGCCCACTG  
GATGAAGGCTCCCGTCTCCTTCAGCAAAGTCAAGCTCACCAACAAGCTCAACGGAGGGGGCCAGATCATGCTGAA  
CTCCTTGACATAAGTATGAGCCTCGAATCCACATAGTGAGAGTTGGGGGTCCACAGCGCATGATCACCAGCCACTG  
CTTCCCTGAGACCCAGTTTCATAGCGGTGACTGCTTATCAGAACGAGGAGATCACAGCTCTTAAAATTAAGTACAA  
TCCATTTGCAAAAGCTTTCCTTGATGCAAAGGAAAGAAGTGATCACAAAGAGATGATGGAGGAACCCGGAGACAG  
CCAGCAACCTGGGTACTCCCAATGGGGGTGGCTTCTTCCCTGGAACCAGCACCCCTGTGTCCACCTGCAAATCCTCA  
TCCTCAGTTTGGAGGTGCCCTCTCCCTCCCTCCACGCACAGCTGTGACAGGTACCCAACCCTGAGGAGCCACCG  
GTCCTCACCCCTACCCAGCCCTATGCTCATCGGAACAATTCTCCAACCTATTCTGACAACTCACCTGCATGTTT  
ATCCATGCTGCAATCCCATGACAATTGGTCCAGCCTTGGAATGCCTGCCCATCCAGCATGCTCCCCGTGAGCCA  
CAATGCCAGCCCACCTACCAGCTCCAGTCAGTACCCAGCCTGTGGTCTGTGAGCAACGGCGCCGTACCCCGGG  
CTCCAGGCAGCAGCCGTGTCCAACGGGCTGGGGGCCAGTTCTTCCGGGGCTCCCCCGCGCACTACACACCCCT  
CACCCATCCGGTCTCGGCGCCCTCTTCTCGGGATCCCCACTGTACGAAGGGGCGGCGCGGCCACAGACATCGT  
GGACAGCCAGTACGACGCCGCAGCCCAAGGCCGCTCATAGCCTCATGGACACCTGTGTGCGCCACCTTCCATGTG  
AAGCAGCAAGGCCAGGTCCCGAAAGATGCAGTGACTTTTTGTGCGTGCCAGCCAGTGGTGACTGGATTGACCTAC  
TAGGTACCCAGTGGCAGTCTCAGGTTAAGAAGGAAATGCAGCCTCAGTAACTTCCTTTTCAAAGCAGTGGAGGAG  
CACACGGCACCTTTCCCCAGAGCCCCAGCATCCCTTGCTCACACCTGCAGTAGCGGTGCTGTCCAGGTGGCTTA  
CAGATGAACCCAACTGTGGAGATGATGCAGTTGGCCCCAACCTCACTGACGGTGAAAAAATGTTTGCCAGGGTCCA  
GAAACTTTTTTTGGTTTATTTCTCATACAGTGTATTGGCAACTTTGGCACACCAGAATTTGTAAACTCCACCAGT  
CCTACTTTAGTGAGATAAAAAGCACACTCTTAATCTTCTTCCCTGTTGCTTTCAAGTAGTTAGAGTTGAGCTGTT  
AAGGACAGAATAAAATCATAGTTGAGGACAGCAGGTTTTAGTTGAATTGAAAATTTGACTGCTCTGCCCCCTAGA  
ATGTGTGTATTTTAAGCATATGTAGCTAATCTCTTGTGTTGTTAAACTATAACTGTTTCATATTTTTCTTTTGAC  
AAAGTAGCCAAAGACAATCAGCAGAAAGCATTTTCTGCAAAATAAACGCAATATGCAAAATGTGATTTCGTCCAGT  
TATTAGTGAAGCCCTCCTTTTGTGAGTATTTACTGTTTATTG

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**FIGURE 2136**

MSSPGTESAGKSLQYRVDHLLSAVENELQAGSEKGDPTERELRVGLEESELWLRFKELTNEMIVTKNGRRMFPVL  
KVNVSGLDPNAMYSEFLLDFAADNHRWKYVNGEWVPGGKPEPQAPSCVYIHPDSPNFGAHWMKAPVSFSKVKLTN  
KLNGGGQIMLNSLHKYEPRIHIVRVGGPQRMITSHCFPETQFIAVTAYQNEEITALKIKYNPFAKAFDAKERSD  
HKEMMEEPGDSQQPGYSQWGWLLPGTSTLCPPANPHPQFGGALSLPSTHSCDRYPTLRSHRSPYPSPYAHNRNS  
PTYSDNSPACLSMLQSHDNWSSLGMPAHPMSMLPVSHNASPPTSSSQYPSLWSVSNGAVTPGSQAAAVSNGLGAQF  
FRGSPAHYTPLTHPVSAPSSSGSPLYEGAAAATDIVDSQYDAAAQGRLIASWTPVSPPSM

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**FIGURE 2137**

CGCAGCCGTGCGATGTTGTCCTCTACAGCCATGTATTTCGGCTCCTGGCAGAGACTTGGGGATGGAACCGCACAGA  
GCCGCGGGCCCTTTGCAGCTGCGATTTTCGCCCTACGTTTTCAACGGAGGTACTATACTGGCAATTGCTGGAGAA  
GATTTTGCAATTGTTGCTTCTGATACTCGATTGAGTGAAGGGTTTTCAATTCATACGCGGGATAGCCCCAAATGT  
TACAAATTAAACAGACAAAACAGTCATTGGATGCAGCGGTTTTCATGGAGACTGTCCTTACGCTGACAAAGATTATT  
GAAGCAAGACTAAAGATGTATAAGCATTCCAATAATAAGGCCATGACTACGGGGGCAATTGCTGCAATGCTGTCT  
ACAATCCTGTATTCAAGGCGCTTCTTTCCATACTATGTTTACAACATCATCGGTGGACTTGATGAAGAAGGAAAG  
GGGGCTGTATACAGCTTTGATCCAGTAGGGTCTTACCAGAGAGACTCCTTCAAGGCTGGAGGCTCAGCAAGTGCC  
ATGCTACAGCCCCTGCTTGACAACCAGGTTGGTTTTAAGAACATGCAGAATGTGGAGCATGTTCCGCTGTCCTTG  
GACAGAGCCATGCGGCTGGTGAAAGATGTCTTCATTTCTGCGGCTGAGAGAGATGTGTACACTGGGGACGCACTC  
CGGATCTGCATAGTGACCAAAGAGGGCATCAGGGAGGAACTGTTTCCTTAAGGAAGGACTGATCTGTGTGCTCT  
TATCACCAATCAGTTCAGACCTGGTTGATTTTGTACTTTGGAAGTGTACCTTGGATGGTTTTGTTTATTAAAA



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**FIGURE 2138**

MLSSTAMYSAPGRDLGMEPHRAAGPLQLRFSPYVFNGGTILAIAGEDFAIVASDTRLSEGFSIHTRDSPKCYKLT  
DKTVIGCSGFHGDCLTLTKIIEARLKMYKHSNNKAMTTGAIAAMLSTILYSRRFFPYVYNIIGGLDEEGKGAVY  
SFDPVGSYQRDSFKAGGSASAMLQPLLDNQVGFKNMQNVEHVPLSLDRAMRLVKDVFISAAERDVYTGDA LRICI  
VTKEGIREETVSLRKD

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**FIGURE 2139**

GCTCCCAGCCGGGGCCCTCAGCGGTGCGCGGGACGGCTCCCGGCTGCAGTCTGCCCGCCCGCCCGCGCGGGGGC  
CGAGTCGCGAAGCGCGCCTGCGACCCGGCGTCCGGGCGCGCTGGAGAGGACGCGAGGAGCCATGAGGCGCCAGCC  
TGCGAAGGTGGCGGCGCTGCTGCTCGGGCTGCTCTTGGAGTGCACAGAAGCCAAAAAGCATTGCTGGTATTTGCA  
AGGACTCTATCCAACCTATTATATATGCGGCTCCTACGAGGACTGCTGTGGCTCCAGGTGCTGTGTGCGGGGCCCT  
CTCCATACAGTGGCTGTGGTACTTCTGGTTCCTTCTGATGATGGGCGTGCTTTTCTGCTGCGGAGCCGGCTTCTT  
CATCCGGAGGCGCATGTACCCCCCGCGCTGATCGAGGAGCCAGCCTTCAATGTGTCTACACCAGGCAGCCCCC  
AAATCCCGGGCCAGGAGCCAGCAGCCGGGGCCACCCTATTACACCGACCCAGGAGGACCGGGGATGAACCCTGT  
CGGGAATTCCATGGCAATGGCTTTCCAGGTCCCACCCAACTCACCCAGGGGAGTGTGGCCTGCCCGCCCCCTCC  
AGCCTACTGCAACACGCCTCCGCCCCCGTACGAACAGGTAGTGAAGGCCAAGTAGTGGGGTGCCACGTGCAAGA  
GGAGAGACAGGAGAGGGCCCTTCCCTGGCCTTTCTGTCTTCGTTGATGTTCACTTCCAGGAACGGTCTCGTGGGC  
TGCTAAGGGCAGTTCTCTGATATCCTACAGCAAGCACAGCTCTCTTTCAGGCTTTCATGGAGTACAATATAT  
GAACTCACACTTTTGTCTCCTCTGTTGCTTCTGTTTCTGACGCACTCTGTGCTCTCACATGGTAGTGTGGTGACAG  
TCCCCGAGGGCTGACGTCTTACGGTGGCGTGACCAGATCTACAGGAGAGAGACTGAGAGGAAGAAGGCAGTGCT  
GGAGGTGCAGGTGGCATGTAGAGGGGCCAGGCCGAGCATCCCAGGCAAGCATCCTTCTGCCCGGGTATTAATAGG  
AAGCCCCACGCCGGGCGGCTCAGCCGATGAAGCAGCAGCCGACTGAGCTGAGCCCAGCAGGTCTCTGCTCCAGC  
CTGTCTCTCGTACGCTTCTCTTCCAGAAGCTGTTGGAGAGACATTTCAGGAGAGAGCAAGCCCTTGTCTATGT  
TCTGTCTCTGTTTCATATCCTAAAGATAGACTTCTCCTGCACCGCCAGGGAAGGGTAGCACGTGCAGCTCTCACC  
GCAGGATGGGGCCTAGAATCAGGCTTGCCCTTGGAGGCCTGACAGTGATCTGACATCCACTAAGCAAATTTATTTA  
AATTCATGGGAAATCACTTCTGCCCAAAGTGAAGCATTTGATTTGTGAGCTCTTGGTCTGATTTGGAGAAAG  
GACTGTTACCCATTTTTTGGTGTGTTTATGGAAGTGCATGTAGAGCATCCTGCCCTTTGAAATCAGACTGGGTGT  
GTGTCTTCCCTGGACATCACTGCCTCTCCAGGTCATTCTCAGGCCCGGGGGTCTCCTTCCCTCAGGCAGCTCCAG  
TGGTGGGTCTGAAGGGTGCTTTCAAACAGGGGGCACATCTGGCTGGGAAGTCACATGGACTCTTCCAGGGAGA  
GAGACCAGCTGAGGCGTCTCTCTCTGAGGTTGTGTGGGTCTAAGCGGGTGTGTGCTGGGCTCCAAGGAGGAGGA  
GCTTGCTGGGAAAAGACAGGAGAAGTACTGACTCAACTGCACTGACCATGTTGTCTATAATTAGAATAAAGAAGAA  
GTGGTTGGAAATGCACATTCTGGATAGGAATCACAGCTCACCCAGGATCTCACAGGTAGTCTCCTGAGTAGTT  
GACGGCTAGCGGGGAGCTAGTTCCGCCGCATAGTTATAGTGTGATGTGTGAACGCTGACCTGTCTGTGTGCTA  
AGAGCTATGCAGCTTAGCTGAGGCGCCTAGATTACTAGATGTGCTGTATCACGGGGAATGAGGTGGGGGTGCTTA  
TTTTTTAATGAACAAATCAGAGACTCTTGAGAAATTGTTACTCATTGAACGGAGCATCAAGACATCTCATGGAA  
ATGGATACGGAGTGATTTGGTGTCCATGCTTTTCACTCTGAGGACATTTAATCGGAGAACCTCCTGGGGAATTTT  
GTGGGAGACACTTGGGAACAAAACAGACACCCTGGGAATGCAGTTGCAAGCACAGATGCTGCCACCAGTGTCTCT  
GACCACCCTGGTGTGACTGCTGACTGCCAGCGTGGTACCTCCCATGCTGCAGGCCTCCATCTAAATGAGACAACA  
AAGCACAATGTTCACTGTTTACAACCAAGACAAGTGCCTGGGTCCAAACACTCCTCTTCTCCAGGTCATTTGTI  
TTGCATTTTTAATGTCTTTATTTTTTGTAATGAAAAAGCACACTAAGCTGCCCCTGGAATCGGGTGCAGCTGAAT  
AGGCACCCAAAAGTCCGTGACTAAATTTGCTTTGTCTTTTTTGATAGCAAATAATGTTAAGAGACAGTGATGGCTA  
GGGCTCAACAATTTTGTATTCCCATGTTTGTGTGAGACAGAGTTTGTTTTCCCTTGAACCTGGTTAGAAATTGTGC  
TACTGTGAACGCTGATCCTGCATATGGAAGTCCCACTTCGGTGACATTTCTGGCCATTCTTGTTCATTGTGT  
GGATGGTGGGTTGTGCCCACTTCTGGAGTGAGACAGCTCCTGGTGTGTAGAATTCCCGGAGCGTCTGTGGTTCA  
GAGTAAACTTGAAGCAGATCTCTGCATGCTTTTCTCTGCAACAATTGGCTCATTTCTCTTTTTTGTCTCTTTT  
GATAGGATCCTGTTTCTATGTGTGCAAAATAAAAATAAATTTGGGCAA

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**FIGURE 2140**

ATGGCAGGGGAGTCACAAAGGAGAAGCACTCAGCCTGCCGAGAGGTCCCAGGACTTTCCTGGAGGATCAGTCCCC  
AAACTGACTGTGACAGGGAGCTATACCCAGATAACAGCAGAGGCCAGATAAGAAAGAGTCTGTAGATGGCAAG  
TCAATGGGAAATCATTCCAGGAAGGTAGGGAAAGATGGAATTCTGGAGAGCATTGGACCTCAGATTGGGAGTCTG  
AACGTCTTTCCATATGCATCAGGAAGCCATGGAAAATTCACAGACTGGAGTGACTTTGGCAAAGGAACAACATAT  
AACGCACTCTCCCCTGAACTCTACACAACATATTTGTCACCAAGACCCTACTTCTGACCTCCCTGTTCTTATGC  
ATTCGAACAGCATACCCCGATTCCGCTACGACCAACTCATACACCTCCTATGA

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**FIGURE 2141**

CTAAATACTACCGTATGACCCACCATAATTACCCCCATACTCCTTACACTATTCCCTCATCACCCAACTAAAAATA  
TTAAATACAAATTACCACCTACCTCCCTCACCAAAGCCCATAAAAATAAAAACTATAACAAACCCTGAGAACCA  
AAATGAACGAAAATCTGTTCACTTCATTTCATTGCCCCACAATCCTAGGCCTACCCGCCGCGAGTACTGATCATT  
TATTTCCCCCTCTATTGATCCCCACCTCCAAATATCTCATCAACAACCGACTAATTACCACCCAACAATGACTAA  
TCCAATAACCTCAAAACAAATGATAGCCATACACAACACTAAGGGACGAACCTGATCTCTTATACTAGTATCCT  
TAATCATTTTTATTGCCACAATAACCTCCTCGGACTCCTGCCTCACTCATTTACACCAACCACCCAACCTATCTA  
TAAACCTAGCCATGGCCATCCCCTTATGAGCGGGCGCAGTGATTATAGGCTTTTCGCTCTAAGATTAAAAATGCCC  
TAGCCCACTTCTTACCACAAGGCACACCTACACCCCTTATCCCTATACTAGTTATTATCGAAACCATCAGCCTAC  
TCATTCAACCAATAGCCCTGGCCGTACGCCTAACCGCTAACATTACTGCAGGCCACCTACTCATGCACCTAATTG  
GAAGCGCCACACTAGCAATATCAACTATTAACCTTCCCTCTACACTTATCATCTTCACAATTCTAATTCTACTGA  
CTATCCTAGAAATCGCTGTCGCCTTAATCCAAGCCTACGTTTTTACACTTCTAGTAAGCCTCTACCTGCACGACA  
ACACATAATGACCCACCAATCACATGCCTATCATATAGTAAAACCCAGCCCATGGCCCCTAACAGGGGCCCTCTC  
AGCCCTCCTAATGACCTCCGGCCTAGCCATGTGATTTCACTTCCACTCCACAACCCCTCTCATACTAGGCCTACT  
AACCAACACACTAACCATATACCAATGATGGCGCGATGTAACACGAGAAAGCACATACCAAGGCCACCACACACC  
ACCTGTCCAGAAAGGCCTTCGATACGGGATAATCCTATTTATTACCTCAGAAGTTTTTTTCTTCGCAGGATTTTT  
CTGAGCCTTTTTACCACTCCAGCCTAGTCCCACCCCCCACTAGGGGGACACTGGCCCCCAACAGGCATCACCCC  
GCTAAATCCCCTAGAAGTCCCACTCCTAAACACATCCGTATTACTCGCATCAGGGGTATCAATCACCTGAGCTCA  
CCATAGTCTAATAGTCTATTTTACCCTCCTACAAGCCTCAGAGTACTTCGAG

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**FIGURE 2142**

GTGGGAACATCCAGTTGCGGGAAAACAAGCTTAACACGCCCCTGATTCTACATTATGCTCCTACCTCCCGGCAG  
CCTCTCCAGGCCCAGAACCTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCC  
CATAACCTACGTCACGGCAGCCTCCGCAGATGAGCCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCG  
TTACAATGGCCTCTTTAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACCTTTCTCAAGTCGACCT  
CACCAGGCCCAGCTCATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGGCCCCCTCCAGGCCCA  
GCCTCTGCCTCCCGTCAGCCTCTACAGTCCCAACGTCTGCCTCACAGCAGATTCTTCAGGCCCAGCATCTGCCTC  
ACTTGGACCTCCAGACCCAGATGGTGTCTCACTGTGGCATCCTCAGGCGAAGCTCCTGCCTTTCGGCAGCCTCT  
CCAGGCCCAGCTCCTCCTGCCTCCCAGTGGCCTCTTTCGGGCCAGCCCAGCTCATGCCTCCCGGCGGCCTTCCCA  
AGCCCCGCTTTTGACTTTCGGTGGCCTCTGCAGGCCTCGACAAGGCCAGCCTCCTGCCTCCCGAAGGCCTGCAC  
AGGCCAGCCTCTGCCTCACAGCGGACTCTC

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**FIGURE 2143**

MLLPFGSLSRPRTFSSQPLQTKLMTHNGLFRPIPYLTAVSADEPTASQPPQAQLHRYNGLFRPSSCLPAFSPGP  
ELSQVDLTRPSSCFFAASPGPTPASWWPLQAQPVPPVGLYNPNICLTADSSRPASASQWTLQTQMVSHCGILRRS  
SCLSAASPGPAPPASQWPLSAQPSSCLPAAFPSPAFDFWWPLQASTRPSLLPPEGLHRPSLCLTADSPRPASSRL  
TAASPVQSSCLSATSAGPATACQWPL

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**FIGURE 2144**

CTCTCTCACACACACCCCCGCTTGGGCCTCCTCTCTCTCTCCGGCTCCATTTTCTCCGCCGCCGGGGGCCGGGGT  
CTCCTGTGGGGGGGCCAGCCGGTATCCCAGGTCTCCCTTCAGTGCCGGGGTGAACCCCCGGGGGAGCCGGGAGCC  
GGGGGCAGACGGGCGGGGGTGGGGCGGAGGGAGCAGCGCCCCAGCGAGTTTGGGGGGAGAAGTAACCAGGCGG  
GGGGAGGGGCGGAGCAGGGAGGGGGCCTCAGGGCCCCCCCCAGCTATGGACGAACGGCTACTGGGGCCGCCCCC  
TCCAGGCGGGGGCCGGGGGGCCTGGGATTGGTGAGTGGGGAGCCTGGGGGCCCTGGCGAGCCTCCCGGTGGCGG  
AGACCCCGGTGGGGGTAGCGGGGGGGTCCCGGAGGCCGAGGGAAGCAAGACATCGGGGACATTCTGCAGCAGAT  
AATGACCATCACCGACCAGAGCCTGGACGAGGCCAGGCCAAGAAACACGCCCTAAACTGCCACCGAATGAAGCC  
TGCTCTCTTTAGCGTCCTGTGTGAAATCAAGGAGAAAAGTGGCCTCAGCATTTCGGAGCTCCCAGGAGGAGGAGCC  
GGTGGACCCACAGCTGATGCGCTTGGACAACATGCTTCTGGCAGAGGGTGTGGCTGGGCCCCAGAAAAGGGGGCGG  
CTCAGCAGCAGCAGCTGCAGCCGCTGCAGCCTCTGGTGGTGGTGTGTCCCTGACAACTCCATCGAACACTCGGA  
CTATCGCAGCAAACTTGCCCAGATCCGTCACATATACCACTCGGAGCTGGAGAAGTATGAGCAGGCATGTAATGA  
GTTACAGACCCATGTGATGAACCTGCTGAGGGAGCAGAGCCGCACCGAGGCCCGTGGCCCCAAAGAGATGGAACG  
CATGGTGAGCATCATCCATCGAAAGTTCAGCGCCATCCAGATGCAGCTGAAGCAGAGCACCTGCGAGGCTGTGAT  
GATCCTGCGCTCCCGTTTCCTGGATGCCAGACGAAAGCGCCGTAACCTTCAGCAAACAGGCCACTGAGGTCCTAAA  
TGAGTATTTCTACTCCCACCTGAGTAACCCATATCCTAGTGAGGAGGCCAAGGAGGAGCTTGCCAAGAAGTGTGG  
CATCACCGTGTCTCAGGTCTCCAAGTGGTTTGGCAACAAGAGGATTTCGCTATAAGAAAAACATCGGAAAGTTCCA  
AGAGGAGGCAAACTCTATGCTGTCAAGACCGCCGTGTGAGTCACCCAGGGGGGCCACAGCCGCACCGAGCTCCCC  
GACACCCCTTCCTCTGCAGGTGGATCCCACTGTACCCAGCTGACTGTTTTGCACACTTCCTGCTTTTGTTC  
CACTTCCTATCTAGGCAGGATCATAGCAGAGAGGGGGCCTTTTGGGGTGAGAGGGACCGAGCTGAGATAGGCTGG  
AGATGTCAGGGGACAGAGGCCATTCCAGTGATCTTAGTTCTGCCTTTCTTCCACGGGTGGCCAAGGAACAGCCT  
GCTCTTCTGTGTGTGGAATGTTATTTTGTGGATAATTGGAGTATAGTAGCATGTCCCCAC

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**FIGURE 2145**

GAGTAGAGTAGGGCAGGAGAACTGGGCCAGGCTGCACTTAGCTCAAGGGGCCTCGAGGACTCTCTGCGTCTCTG  
GAGACAAGGGCACTACACGCACTTCAGAATGAAGAGTTGCGGGAGCATGCTGGGGCTCTGGGGGCAGCGGCTCCC  
CGCGGCGTGGGTCTGCTTCTGTTGCCCTTTCCTGCCGCTGCTGCTGCTTGACGCCCCCGCGCCCCACCGCGAGTC  
CTACAAGCCGGTCAATCGTGGTGACATGGGCTCTTCGACAGCTCGTACAGCTTCCGCCACCTGCTGGAATACATCAA  
TGAGACACACCCCGGGACTGTGGTGACAGTGCTCGATCTCTTCGATGGGAGAGAGAGCTTGCGACCCCTGTGGGA  
ACAGGTGCAAGGGTTCCGAGAGGCTGTGGTCCCCATCATGGCAAAGGCCCTCAAGGGGTGCATCTCATCTGCTA  
CTCGCAGGGGGGCCCTTGTGTGCCGGGCTCTGCTTCTGTCTATGGATGATCACAACGTGGATTCTTTCATCTCCCT  
CTCCTCTCCACAGATGGGACAGTATGGAGACACGGACTACTTGAAGTGGCTGTTCCCCACCTCCATGCGGTCTAA  
CCTCTATCGGATCTGCTATAGCCCCCTGGGGCCAGGAATTCTCCATCTGCAACTACTGGCATGATCCCCACCACGA  
TGACTTGTACCTCAATGCCAGCAGCTTCTGGCCCTGATCAATGGGGAAAGAGACCATCCCAATGCCACAGTATG  
GCGGAAGAACCTTCTGCGTGTGGGCCACCTGGTGTGATTGGGGGCCCTGATGATGGTGTATTACTCCCTGGCA  
GTCCAGCTTCTTTGGTTTCTATGATGCAAATGAGACCGTCTCTGGAGATGGAGGAGCAACTGGTTTATCTGCGGGA  
TTCTTTTGGGTGAAGACTCTATTGGCCCGGGGGGCCATAGTGAGGTGTCCAATGGCCGGTATCTCCCACACAGC  
CTGGCACTCCAACCGTACCCTTTATGAGACCTGCATTGAACCTTGGCTCTCCTGAGGATATATTCAGGGGTCCCC  
AGGAACTCCTCGGTCCAGAGACCAAGTGGTGGCCTTGGAAAGCAGATGTCAGGCTTGGTGTGCCTGTGACCACC  
TCATTGCTCCCATATTATCCCCCATTTTTAGTAGAGACGGGGTTTTAGTAGAGACTTGGCCTCCAGAACCCCT  
TCCCTCTGCTCCTCCATGAATGACAATTCCAGGCCTCCCTACCTCATGTCTCTCATTGGGGGATTGCTCCGTG  
CTGTCCCTTTCTCTCAAGGCCGAAGTTGGGAAGTGAGAAACCATGTTTTTAACCTGTGGCTGCTTTTGCTGCTGC  
TGCTCCTCCGTATCTGGCTGTATGGGTGGAGAACCCACCCCTGCCCACCACAGGGGTCTCCTTCCAGGCCACTC  
AGGACATTTTAGCTTCTCTCCTCCCATGTTCCCTTTTTTCTCTAAAGTCCCTGACATCAGCCCTCCCAACTC  
CTAAGAGGGACTACCCATGAGAGTGGGGTTCTGAGGCTCCCTATGGGGACAGTTCCGTTCTTGAAGTGTGAGT  
TTGGGGAATATCTGTGGCCTATGAGGCCATCTCAGGTTTGGGGATCCCCAGTCCCTATGATCAGTGTGGAGT  
ACCCCTTGGGAGAGCCTAGTTTCTTTGAGGCCCCAGGCCCTCTTTTAACCTTTGAATAGGTGTTATCCCTG  
TATTTATGGAATAAAGTTCCATTTCTC



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**FIGURE 2146A**

AGAAGGTAGCAGACAGACAGACGGATCTAACCTCTCTTGGATCCTCCAGCCATGAGGCTGCTCTGGGGGCTGATC  
TGGGCATCCAGCTTCTTACCTTATCTCTGCAGAAGCCCAGGTTGCTCTTGTCTCTCTCTTCTGTGGTTTCATCTG  
GGGGTCCCCCTATCGGTGGGGGTGCAGCTCCAGGATGTGCCCCGAGGACAGGTAGTGAAAGGATCAGTGTTCTCTG  
AGAAACCCATCTCGTAATAATGTCCCCTGCTCCCCAAAGGTGGACTTCACCCTTAGCTCAGAAAGAGACTTCGCA  
CTCCTCAGTCTCCAGGTGCCCTTGAAAGATGCGAAGAGCTGTGGCCTCCATCAACTCCTCAGAGGCCCTGAGGTC  
CAGCTGGTGGCCCATTCGCCATGGCTAAAGGACTCTCTGTCCAGAACGACAAACATCCAGGGTATCAACCTGCTC  
TTCTCCTCTCGCCGGGGGCACCTCTTTTTTGACAGCGGACCAGCCCATTTACAACCCTGGCCAGCGGGTTTCGGTAC  
CGGGTCTTTGCTCTGGATCAGAAGATGCGCCGAGCACTGACACCATCACAGTCATGGTGGAGAACTCTCACGGC  
CTCCGCGTGCGGAAGAAGGAGGTGTACATGCCCTCGTCCATCTTCCAGGATGACTTTGTGATCCCAGACATCTCA  
GAGCCAGGGACCTGGAAGATCTCAGCCCGATTCTCAGATGGCCTGGAATCCAACAGCAGCACCCAGTTTGAGGTG  
AAGAAATATGTCTTCCCAACTTTGAGGTGAAGATCACCCCTGGAAAGCCCTACATCCTGACGGTGCCAGGCCAT  
CTTGATGAAATGCAGTTAGACATCCAGGCCAGGTACATCTATGGGAAGCCAGTGCAGGGGGTGGCATATGTGCGC  
TTTGGGCTCCTAGATGAGGATGGTAAGAAGACTTTCTTTTCGGGGGCTGGAGAGTCAGACCAAGCTGGTGAATGGA  
CAGAGCCACATTTCCCTCTCAAAGGCAGAGTTCCAGGACGCCCTGGAGAAGCTGAATATGGGCATTACTGACCTC  
CAGGGGCTGCGCCTCTACGTTGCTGCAGCCATCATTGAGTCTCCAGGTGGGAGATGGAGGAGGCAGAGCTCACA  
TCCTGGTATTTTGTGTCTCTCCCTTCTCCTTGGATCTTAGCAAGACCAAGCGACACCTTGTGCCTGGGGCCCCC  
TTCTGCTGCAGGCCCTTGGTCCGTGAGATGTGAGGCTCCCCAGCTTCTGGCATTCCTGTCAAAGTTTCTGCCACG  
GTGTCTTCTCCTGGGTCTGTTCTGAAGTCCAGGACATTGAGCAAAACACAGACGGGAGCGGCCAAGTCAGCATT  
CCAATAATTATCCCTCAGACCATCTCAGAGCTGCAGCTCTCAGTATCTGCAGGCTCCCCACATCCAGCGATAGCC  
AGGCTCACTGTGGCAGCCCCACCTTCAGGAGGCCCGGGTTTCTGTCTATTGAGCGGCCGATTCTCGACCTCCT  
CGTGTGGGGACACTCTGAACCTGAACCTTGCGAGCCGTGGGCAGTGGGGCCACCTTTTCTCATTACTACTACATG  
ATCCTATCCCGAGGGCAGATCGTGTTTCATGAATCGAGAGCCCAAGAGGACCCTGACCTCGGTCTCGGTGTTTGTG  
GACCATCACCTGGCACCTCCTTCTACTTTGTGGCCTTCTACTACCATGGAGACCACCCAGTGGCCAACTCCCTG  
CGAGTGGATGTCCAGGCTGGGGCCTGCGAGGGCAAGCTGGAGCTCAGCGTGGACGGTGCCAAGCAGTACCGGAAC  
GGGGAGTCCGTGAAGCTCCACTTAGAAACCGACTCCCTAGCCCTGGTGGCGCTGGGAGCCTTGGACACAGCTCTG  
TATGCTGCAGGCAGCAAGTCCCAAGCCCTCAACATGGGCAAGGTCTTTGAAGCTATGAACAGCTATGACCTC  
GGCTGTGGTCTTGGGGTGGGGACAGTGCCCTTCAGGTGTTCCAGGCAGCGGGCCTGGCCTTTTCTGATGGAGAC  
CAGTGGACCTTATCCAGAAAGAGACTAAGCTGTCCCAAGGAGAAGACAACCCGGAAGAGAAACGTGAACCTTC  
CAAAAGGCGATTAAATGAGAAATTGGGTGAGTATGCTTCCCCGACAGCCAAGCGCTGCTGCCAGGATGGGGTGACA  
CGTCTGCCCATGATGCGTTCCTGCGAGCAGCGGGCAGCCCGCTGCAGCAGCCGGACTGCCGGGAGCCCTTCCTG  
TCCTGTGCCAATTTGCTGAGAGTCTGCGCAAGAAGAGCAGGGACAAGGGCCAGGCGGGCCTCCAACGAGCCCTG  
GAGATCCTGCAGGAGGAGGACCTGATTGATGAGGATGACATTCCCGTGGCAGCTTCTTCCCAGAGAAGTGGCTC  
TGGAGAGTGGAAACAGTGGACCGCTTCAAATATTGACACTGTGGCTCCCCGACTCTCTGACCACGTGGGAGATC  
CATGGCCTGAGCCTGTCCAAAACCAAAGGCCTATGTGTGGCCACCCCAGTCCAGCTCCGGGTGTTCCGCGAGTTC  
CACCTGCACCTCCGCCTGCCCATGTCTGTCCGCCGCTTTGAGCAGCTGGAGCTGCGGCTGTCTCTATAACTAC  
CTGGATAAAAAACCTGACTGTGAGCGTCCACGTGTCCCCAGTGGAGGGCTGTGCCTGGCTGGGGGCGGAGGGCTG  
GCCCAGCAGGTGCTGGTGCCTGCGGGCTCTGCCCGCCTGTTGCCCTTCTCTGTGGTGGCCACGGCAGCCACCGCT  
GTGTCTCTGAAGGTGGTGGCTCGAGGGTCTTTCGAATTCCTGTGGGAGATGCGGTGTCCAAGGTTCTGCAGATT  
GAGAAGGAAGGGGCCATCCATAGAGAGGAGCTGGTCTATGAACTCAACCCCTTGACCACCGAGGCCGACCTTG  
GAAATACCTGGCAACTCTGATCCCAATATGATCCCTGATGGGGACTTTAACAGCTACGTAGGGTTACAGCCTCA  
GATCCATTGGACACTTTAGGCTCTGAGGGGGCCTTGTACACAGGAGGCGTGGCCTCCCTCTTGAGGCTTCTCGA  
GGCTGTGGGGAGCAAACCATGATCTACTTGGCTCCGACACTGGCTGCTTCCCGCTACCTGGACAAGACAGAGCAG  
TGGAGCACACTGCCTCCCGAGACCAAGGACCACGCCGTGGATCTGATCCAGAAAGGCTACATGCGGATCCAGCAG  
TTTCGGAAGGCGGATGGTTCCTATGCGGCTTGGTTGTACGGGGCAGCAGCACCTGGCTCACAGCCTTTGTGTTG  
AAGGTCTGAGTTTGGCCCAGGAGCAGGTAGGAGGCTCGCCTGAGAACTGCAGGAGACATCTAACTGGCTTCTG  
TCCCAGCAGCAGGCTGACGGCTCGTTCCAGGACCTCTCTCCAGTGATACATAGGAGCATGCAGGGGGGTTTGGTG  
GGCAATGATGAGACTGTGGCACTCACAGCCTTTGTGACCATCGCCCTTCATCATGGGCTGGCCGTCTTCCAGGAT  
GAGGGTGCAGAGCCATTGAAGCAGAGAGTGGAAGCCTCCATCTCAAAGGCAAGCTCATTTTTTGGGGGAGAAAGCA

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**FIGURE 2146B**

AGTGCTGGGCTCCTGGGTGCCACGCAGCTGCCATCACGGCCTATGCCCTGACACTGACCAAGGCCCTGCGGAC  
CTGCGGGGTGTTGCCCACAACAACCTCATGGCAATGGCCAGGAGACTGGAGATAACCTGTACTGGGGCTCAGTC  
ACTGGTTCTCAGAGCAATGCCGTGTGCCCCACCCCGGCTCCTCGCAACCCATCCGACCCCATGCCCCAGGCCCA  
GCCCTGTGGATTGAAACCACAGCCTACGCCCTGCTGCACCTCCTGCTTCACGAGGGCAAAGCAGAGATGGCAGAC  
CAGGCTGCGGCCCTGGCTCACCCGTCAGGGCAGCTTCCAAGGGGGATTCCGCAGTACCCAAGACACGGTGATTGCC  
CTGGATGCCCTGTCTGCCTACTGGATTGCCTCCCACACCACTGAGGAGAGGGGTCTCAATGTGACTCTCAGCTCC  
ACAGCCCGGAATGGGTTCAAGTCCCACGCGCTGCAGCTGAACAACCGCCAGATTTCGCGGCCTGGAGGAGGAGCTG  
CAGTTTTCTTGGGCAGCAAGATCAATGTGAAGGTGGGAGGAAACAGCAAAGGAACCCCTGAAGGTCCTTCGTACC  
TACAATGTCCCTGGACATGAAGAACACGACCTGCCAGGACCTACAGATAGAAGTGACAGTCAAAGGCCACGTGCGAG  
TACACGATGGAAGCAAACGAGGACTATGAGGACTATGAGTACGATGAGCTTCCAGCCAAGGATGACCCAGATGCC  
CCTCTGCAGCCCGTGACACCCCTGCAGCTGTTTGAGGGTTCGGAGGAACCGCCGCAGGAGGGAGGCGCCCAAGGTG  
GTGGAGGAGCAGGAGTCCAGGGTGCCTACACCGTGTGCATCTGGCGGAACGGCAAGGTGGGGCTGTCTGGCATG  
GCCATCGCGGACGTCACCCCTCCTGAGTGGATTCCACGCCCTGCGTGCTGACCTGGAGAAGCTGACCTCCCTCTCT  
GACCGTTACGTGAGTCACTTTGAGACCGAGGGGCCCCACGTCTCTGTATTTTGACTCGGTCCCCACCTCCCGG  
GAGTGCCTGGGCTTTGAGGCTGTGCAGGAAGTGCCGGTGGGGCTGGTGACCGGCCAGCGCAACCCCTGTACGAC  
TACTACAACCCCGAGCGCAGATGTTCTGTGTTTTACGGGGCACCAAGTAAGAGCAGACTCTTGGCCACCTTGTTG  
TCTGCTGAAGTCTGCCAGTGTGCTGAGGGGAAGTGCCCTCGCCAGCGTCGCGCCCTGGAGCGGGGTCTGCAGGAC  
GAGGATGGCTACAGGATGAAGTTTGCTGCTACTACCCCGTGTGGAGTACGGCTTCCAGGTTAAGGTTCTCCGA  
GAAGACAGCAGAGCTGCTTTCCGCCTCTTTGAGACCAAGATCACCCAAGTCCTGCACTTCACCAAGGATGTCAAG  
GCCGCTGCTAATCAGATGCGCAACTTCCTGGTTCGAGCCTCCTGCCGCTTCGCTTGGAACCTGGGAAAGAATAT  
TTGATCATGGGTCTGGATGGGGCCACCTATGACCTCGAGGGACACCCCAAGTACCTGCTGGACTCGAATAGCTGG  
ATCGAGGAGATGCCCTCTGAACGCCTGTGCCGGAGCACCCGCCAGCGGGCAGCCTGTGCCAGCTCAACGACTTC  
CTCCAGGAGTATGGCACTCAGGGGTGCCAGGTGTGAGGGCTGCCCTCCCACCTCCGCTGGGAGGAACCTGAACCT  
GGGAACCATGAAGCTGGAAGCACTGCTGTGTCCGCTTTCATGAACACAGCCTGGGACCAGGGCATATTAAAGGCT  
TTTGGCAGCAAAGTGTCAGTGTGGC

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**FIGURE 2147**

TGTGGCCACCCAGTTCAGCTCCGGGTGTTCCGCGAGTTCCACCTGCACCTCCGCCTGCCCCATGCTCTGTCCGCCG  
CTTTGAGCAGCTGGAGCTGCGGCCTGTCTCTATAACTACCTGGATAAAAAACCTGACTGTGAGCGTCCACGTGTC  
CCCAGTGGAGGGGCTGTGCCTGGCTGGGGGCGGAGGGCTGGCCCAGCAGGTGCTGGTGCTGCGGGCTCTGCCCG  
GCCTGTTGCCTTCTCTGTGGTGCCACGGCAGCCACCGCTGTGTCTCTGAAGGTGGTGGCTCGAGGGTCCCTTCGA  
ATTCCCTGTGGGAGATGCGGTGTCCAAGGTTCTGCAGATTGAGAAGGAAGGGGCCATCCATAGAGAGGAGCTGGT  
CTATGAACTCAACCCCTTGGACCACCGAGGCCGACCTTGAAATACCTGGCAACTCTGATCCCAATATGATCCC  
TGATGGGGACTTTAACAGCTACGTACGGGTACAGCCTCAGATCCATTGGACACTTTAGGCTCTGAGGGGGCCTT  
GTCACCAGGAGGCGTGGCCTCCCTCTTGAGGCTTCCTCGAGGCTGTGGGGAGCAAACCATGATCTACTTGGCTCC  
GAACTGGCTGCTTCCCGCTACCTGGACAAGACAGAGCAGTGGAGCACACTGCCTCCCGAGACCAAGGACCACGC  
CGTGGATCTGATCCAGAAAGGCTACATGCGGATCCAGCAGTTTCGGAAGGCGGATGGTTCCATGCGGCTTGGTT  
GTCACGGGGCAGCAGCACCTGGCTCACAGCCTTTGTGTTGAAGGTCCTGAGTTTGGCCCAGGAGCAGGTAGGAGG  
CTCGCCTGAGAACTGCAGGAGACATCTAACTGGCTTCTGTCCCAGCAGCAGGCTGACGGCTCGTTCCAGGACCT  
CTCTCCAGTGATACATAGGAGCATGCAAGGGGGTGGTGGGCAATGATGAGACTGTGGCACTCACAGCCTTTGT  
GACCATCGCCCTTCATCATGGGCTGGCCGTCTTCCAGGATGAGGGTGCAGAGCCATTGAAGCAGAGAGTGGAAGC  
CTCCATCTCAAAGGCAAGCTCATTTTTTGGGGGAGAAAGCAAGTGCTGGGCTCCTGGGTGCCACGCAGCTGCCAT  
CACGGCCTATGCCCTGAACTGACCAAGGCCCCCTGCGGACCTGCGGGGTGTTGCCACAACAACCTCATGGCAAT  
GGCCCAGGAGACTGGAGATAACCTGTACTGGGGCTCAGTCACTGGTTCTCAGAGCAATGCCGTGTCGCCACCCC  
GGCTCCTCGCAACCCATCCGACCCCATGCCCCAGGCCCCAGCCCTGTGGATTGAAACCACAGCCTACGCCCTGCT  
GCACCTCCTGCTTACAGAGGGCAAAGCAGAGATGGCAGACCAGGCTGCGGCCTGGCTCACCCGTGAGGGCAGCTT  
CCAAGGGGGATTCCGCGAGTACCAAGACACGGTGATTGCCCTGGATGCCCTGTCTGCCTACTGGATTGCCTCCCA  
CACCCTGAGGAGAGGGGTCTCAATGTGACTCTCAGCTCCACAGGCCGAATGGGTTCAAGTCCCACGCGCTGCA  
GCTGAACAACCGCCAGATTGCGGCCTGGAGGAGGAGCTGCAGTTTTCTTGGGCAGCAAGATCAATGTGAAGGT  
GGGAGGAAACAGCAAAGGAACCTGAAGGTCTTTCGTACCTACAATGTCCTGGACATGAAGAACAGCAGCTGCCA  
GGACCTACAGATAGAAGTGACAGTCAAAGGCCACGTGAGTACACGATGGAAGCAAACGAGGACTATGAGGACTA  
TGAGTACGATGAGCTTCCAGCCAAGGATGACCCAGATGCCCCCTCTGCAGCCCGTGACACCCCTGCAGCTGTTTGA  
GGGTGCGAGGAACCGCCGAGGAGGGAGGCGCCCAAGGTGGTGGAGGAGCAGGAGTCCAGGGTGCACTACACCGT  
GTGCATCTGGCGGAACGGCAAGGTGGGGCTGTCTGGCATGGCCATCGCGGACGTACCCCTCCTGAGTGGATTCCA  
CGCCCTGCGTGCTGACCTGGAGAAGCTGACCTCCCTCTCTGACCGTTACGTGAGTCACTTTGAGACCGAGGGGCC  
CCACGTCTGCTGTATTTTGACTCGGTCCCCACCTCCCGGGAGTGCGTGGGCTTTGAGGCTGTGCAGGAAGTGCC  
GGTGGGGCTGGTGCAGCCGGCCAGCGCAACCCTGTACGACTACTACAACCCCGAGCGCAGATGTTCTGTGTTTTA  
CGGGGCACCAAGTAAGAGCAGACTCTTGGCCACCTTGTGTTCTGCTGAAGTCTGCCAGTGTGCTGAGGGGAAGTG  
CCCTCGCCAGCGTCGCGCCCTGGAGCGGGTCTGCAGGACGAGGATGGCTACAGGATGAAGTTTGCCTGCTACTA  
CCCCGTGTGGAGTACGGCTTCCAGGTTAAGGTTCTCCGAGAAGACAGCAGAGCTGCTTTCCGCCTCTTTGAGAC  
CAAGATCACCAAGTCTGCACTTACCAAGGATGTCAAGGCCGCTGCTAATCAGATGCGCAACTTCTGTTTCG  
AGCCTCCTGCCGCTTTCGCTTGGAACTGGGAAAGAATATTTGATCATGGGTCTGGATGGGGCCACCTATGACCT  
CGAGGGACACCCCCAGTACCTGCTGGACTCGAATAGCTGGATCGAGGAGATGCCCTCTGAACGCCTGTGCCGGAG  
CACCCGCCAGCGGGCAGCCTGTGCCAGCTCAACGACTTCTCCAGGAGTATGGCACTCAGGGGTGCCAGGTGTG  
AGGGCTGCCCTCCACCTCCGCTGGGAGGAACCTGAACCTGGGAACCATGAAGCTGGAAGCACTGCTGTGTCCGC  
TTTCATGAACACAGCCTGGGACCAGGGCATATTAAAGGCTTTTGGCAGCA

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**FIGURE 2148**

ATTCTTGTCTGTTCTGCCTCACTCCCGAGCTCTACTGACTCCCAACAGAGCGCCCAAGAAGAAAATGGCCATAAG  
TGGAGTCCCTGTGCTAGGATTTTTTCATCATAGCTGTGCTGATGAGCGCTCAGGAATCATGGGCTATCAAAGAAGA  
ACATGTGATCATCCAGGCCGAGTTCTATCTGAATCCTGACCAATCAGGCGAGTTTATGTTTGACTTTGATGGTGA  
TGAGATTTTCCATGTGGATATGGCAAAGAAGGAGACGGTCTGGCGGCTTGAAGAATTGGACGATTGGCCAGCTT  
TGAGGCTCAAGGTGCATTGGCCAACATAGCTGTGGACAAAGCCAACCTGGAAATCATGACAAAGCGCTCCAACTA  
TACTCCGATCACCAATGTACCTCCAGAGGTAACCTGTGCTCACGAACAGCCCTGTGGAACTGAGAGAGCCCAACGT  
CCTCATCTGTTTCATAGACAAGTTCACCCCAACAGTGGTCAATGTCACGTGGCTTCGAAATGGAAAACCTGTCAC  
CACAGGAGTGTGAGAGACAGTCTTCCTGCCCAGGGAAGACCACCTTTTCCGCAAGTTCCACTATCTCCCCTTCCT  
GCCCTCAACTGAGGACGTTTACGACTGCAGGGTGGAGCACTGGGGCTTGGATGAGCCTCTTCTCAAGCACTGGGA  
GTTTGATGCTCCAAGCCCTCTCCCAGAGACTACAGAGAACGTGGTGTGTGCCCTGGGCCTGACTGTGGGTCTGGT  
GGGCATCATTATTGGGACCATCTTCATCATCAAGGGATTGCGCAAAAGCAATGCAGCAGAACGCAGGGGGCCTCT  
GTAAGGCACATGGAGGTGATGGTGTTCCTTAGAGAGAAGATCACTGAAGAACTTCTGCTTTAATGGCTTTACAA  
AGCTGGCAATATTACAATCCTTGACCTCAGTGAAAGCAGTCATCTTCAGCATTTTCCAGCCCTATAGCCACCCCA  
AGAGTGGTTATGCCTCCTCGATTGCTCCATACTCTAACATCTAGCTGGCTTCCCTGTCTATTGCCTTTTCCTGTA  
TCTATTTTTCCTCTATTTTCCTATCATTTTATTATCACCATGCAATGCCTCTGGAATAAAACATACAGGAGTCTGTC  
TCTGCTATGGAATGCCCCATGGGGCATCTCTTGTGTACTTATTGTTTAAGGTTTCCTCAAACGTGATTTTTCTG  
AACACAATAAACTATTTTGAAGATCTTGGGTGGAA

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**FIGURE 2149**

MAISGVPVLGFFIIAVLMSAQESWAIKEEHVIIQAEFYLNPDQSGEFMFDGDEIFHVDMAKKETVWRLEEFGR  
FASFEAQGALANIAVDKANLEIMTKRSNYTPITNVPPEVTVLTNSPVELREPNVLICFIDKFTPPVVNVTWLRNG  
KPVTTGVSETVFLPREDHLFRKFHYLPFLPSTEDVYDCRVEHWGLDEPLLKHWEFDAPSPLPETTENVVCALGLT  
VGLVGIIIGTIFI IKGLRKSNA AERRGPL

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**FIGURE 2150**

ATGAAGGCCAACTACAGCGCAGAGGAGCGCTTTCTCCTGCTGGGTTTCTCCGACTGGCCTTCCCTGCAGCCGGTC  
CTCTTCGCCCTTGTCTCCTGTGCTACCTCCTGACCTTGACGGGCAACTCGGCGCTGGTGCTGCTGGCGGTGCGC  
GACCCGCGCCTGCACACGCCCATGTACTACTTCTCTGCCACCTGGCCTTGGTAGACGCGGGCTTCACTACTAGC  
GTGGTGCCGCCGCTGCTGGCCAACCTGCGCGGACCAGCGCTCTGGCTGCCGCGCAGCCACTGCACGGCCCAGCTG  
TGCGCATCGCTGGCTCTGGGTTCGCGCGAATGCGTCCTCCTGGCGGTGATGGCTCTGGACCGCGCGGCCGAGTG  
TGCCGCCCCTGCGCTATGCGGGGCTCGTCTCCCCGCGCCTATGTCGCACGCTGGCCAGCGCCTCCTGGCTAAGC  
GGCCTCACCAACTCGGTTGCGCAAACCGCGCTCCTGGCTGAGCGGCCGCTGTGCGCGCCCCGCTGCTGGACCAC  
TTCATCTGTGAGCTGCCGGCGTTGCTCAAGCTGGCCTGCGGAGGCGACGGAGACACTACCGAGAACCAGATGTTC  
GCCGCCCCGCTGGTTCATCCTGCTGCTGCCGTTTGCCGTCATCCTGGCCTCCTACGGTGCCGTGGCCCCGAGCTGTC  
TGTTGCATGCGGTTTACGCGGAGGCCGAGGAGGGCGGTGGGCACGTGTGGGTCCCACCTGACAGCCGTCTGCCTG  
TTCTACGGCTCGGCCATCTACACCTACCTGCAGCCCGCGCAGCGCTACAACCAGGCACGGGGCAAGTTCGTATCG  
CTCTTCTACACCGTGGTCACACCTGCTCTCAACCCGCTCATCTACACCCTCAGGAATAAGAAAGTGAAGGGGGCA  
GCGAGGAGGCTGCTGCGGAGTCTGGGGAGAGGCCAGGCTGGGCAGTGA

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**FIGURE 2151**

MEGTQEYDSSMQTVRFQGERRKSPSNATFSPFFWMPHSAKSLVADAGIHSRNQHSYAIASFYKYSQLHFKSRESR  
AGARDQPIIWKLKANYSAEERFLLLGFSWPSLQPVLFALVLLCYLLTLTGNSALVLLAVRDPRLHTPMYYFLCH  
LALVDAGFTTSVVPPLLANLRGPALWLPRSHCTAQLCASLALGSAECVLLAVMALDRAAAVCRPLRYAGLVSPRL  
CRTLASASWLSGLTNSVAQTALLAERPLCAPRLLDHFICELPALLKLACGGDGDTTENQMFAARVVILLPFAVI  
LASYGAVARAVCCMRFSGGRRRAVGTCGSHLTAVCLFYGSAIYTYLQPAQRYNQARGKFVSLFYTVVTPALNPLI  
YTLRNKKVKGAARRLLRSLGRGQAGQ

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**FIGURE 2152**

GAGAGCACGACGTGCGCGCACCCCTCTCCCCTTGTCCTACTGCTGCCGCTCCTTCTTCTGCCGCTCCTGGTGCTGC  
TTGTGTGCTCGTTTGGAGCGGACCTGGTACCTCTTTTGTGAAGCGGCAGCTGAGGAGACTCCGGCGCTCGCCATG  
GCCGAAGAAAAGCCCAAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGAAGGTGGCGGGGCAGGAT  
GGTTCTGTGGTGCAGTTTAAGATTAAAGAGGCATACACCACTTAGTAACTAATGAAAGCCTATTGTGAACGACAG  
GGATTGTCAATGAGGCAGATCAGATTCCGATTGACGGGCAACCAATGAAACAGACACACCTGCACAGTTGGAAA  
TGGAGGATGAAGATAACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTGAAAAGGGAACCTGCTTCTTT  
ACTCCAGAACTCTGTTCTTTAAAGACCAAGATTACATTCTCAATTAGAAAAGTCAATTTGCTTCCACCACATCC  
TGACTACTACCGTATAGTTTTCTCTATTCTTTCAATTTCCCCCTTCCCCATTCTTTACTGTACATAAAGTAACTG  
GTATATGTGCACAAGCATATTACTTTTTTTTTTTTAACTAAACAGCCAATGGTATGTTTTGATTGACATCAAGT  
GGAGACGGGGCGGAAAAATACTGATTCTGTGAAAATACCCCTTTCTCCATTAGTGGCATGCTCATTGAGCTCTT  
ATCTTTATATTCCAGTAAGTTATTTTGCTCTCACTGTTTTAACAAACAACAAAAAAACAACACATAAAAATC  
CTTGACATACCTTGTTCAATTGGAGAATTTAATGTTTTTCATTTATCATTGTAAAACCAAGGACAATTTTATAAC  
TTTTTTGTACTTAGCTGTTACATGCAGAGCAATCTGTCTTTAAGTAGGGATAAATTACTCTAAAACAAAAAGAA  
TCCTAGATAGTTTTCCCTTCAAGTCAAGCGTCTTGTTGTTTAAATAAACTTCTTGTTTAAAA



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**FIGURE 2153**

MAEEKPKEGVKTENNDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQGLSMRQIRFRFDGQPMKQTHLSW  
KWRMKIQLMCSNSRREVSTEKGTCTFTPELCSLTKITFSIRKLQFASTTS

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**FIGURE 2154**

GCGCACCTCTCCCCCTTGTCCACTGCTGCCGCCTCCTTCTTCTGCCGCTCCTGGTGCTGCTTGTGTGCTCGTTTG  
GAGCGGACCTGGTACCTCTTTTGTGAAGCGGCAGCTGAGGAGACTCCGGCGCTCGCCATGGCCGAAGAAAAGCCC  
AAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGAAGGTGGCGGGGCAGGATGGTTCTGTGGTGCAG  
TTTAAGATTAAAGAGGCATACACCACTTAGTAACTAATGAAAGCCTATTGTGAACGACAGTGGAAATGGAGGATG  
AAGATACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTGAAAAGGGAACCTGCTTCTTTACTCCAGAA  
CTCTGTTCTTTAAAGACCAAGATTACATTCTCAATTAGAAAAGTCAATTGCTTCCACCACATCCTGACTACTA  
CCGTATAGTTTTCTCTATTCTTTCATTCCCCCTTCCCCATTCTTTACTGTACATA

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**FIGURE 2155**

AGACGCCGAGATGCTGGTCATGGCGCCCCGAACCGTCCTCCTGCTGCTCTCGGCGGCCCTGGCCCTGACCGAGAC  
CTGGGCCGGCTCCCACTCCATGAGGTATTTCTACACCTCCGTGTCCCGGCCCGGCCGCGGGGAGCCCCGCTTCAT  
CTCAGTGGGCTACGTGGACGACACCCAGTTCGTGAGGTTGACAGCGACGCCGCGAGTCCGAGAGAGGAGCCGCG  
GGCGCCGTGGATAGAGCAGGAGGGGCGGAGTATTGGGACCGGAACACACAGATCTACAAGGCCAGGCACAGAC  
TGACCGAGAGAGCCTGCGGAACCTGCGCGGCTACTACAACCAGAGCGAGGCCGGGTCTCACACCCTCCAGAGCAT  
GTACGGCTGCGACGTGGGGCCGGACGGGCGCCTCCTCCGCGGGCATGACCAGTACGCCTACGACGGCAAGGATTA  
CATCGCCCTGAACGAGGACCTGCGCTCCTGGACCGCCGCGGACACGGCGGCTCAGATCACCCAGCGCAAGTGGGA  
GGCGGCCCGTGAGGCGGAGCAGCGGAGAGCCTACCTGGAGGGCGAGTGCCTGGAGTGGCTCCGCAGATACCTGGA  
GAACGGGAAGGACAAGCTGGAGCGCGCTGACCCCCAAAGACACACGTGACCCACCACCCCATCTCTGACCATGA  
GGCCACCCTGAGGTGCTGGGCCCTGGGTTTCTACCCTGCGGAGATCACACTGACCTGGCAGCGGGATGGCGAGGA  
CCAAACTCAGGACACTGAGCTTGTGGAGACCAGACCAGCAGGAGATAGAACCTTCCAGAAGTGGGCAGCTGTGGT  
GGTGCCTTCTGGAGAAGAGCAGAGATACACATGCCATGTACAGCATGAGGGGCTGCCGAAGCCCCTCACCCCTGAG  
ATGGGAGCCGTCTTCCCAGTCCACCGTCCCCATCGTGGGCATTGTTGCTGGCCTGGCTGTCCTAGCAGTTGTGGT  
CATCGGAGCTGTGGTTCGCTGCTGTGATGTGTAGGAGGAAGAGTTCAGGTGGAAAAGGAGGGAGCTACTCTCAGGC  
TGCGTGCAGCGACAGTGCCAGGGCTCTGATGTGTCTCTCACAGCTTGAAAAGCCTGAGACAGCTGTCTTGTGAG  
GGACTGAGATGCAGGATTTCTTCACGCCTCCCCTTTGTGACTTCAAGAGCCTCTGGCATCTCTTTCTGCAAAGGC  
ACCTGAATGTGTCTGCGTCCCTGTTAGCATAATGTGAGGAGGTGGAGAGACAGCCCACCCTTGTGTCCACTGTGA  
CCCTGTTTCGCATGCTGACCTGTGTTTCTCCCCA .

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**FIGURE 2156**

MLVMAPRTVLLLLSAALALTETWAGSHSMRYFYTSVSRPGRGEPRFISVGIVDDTQFVRFDSDAASPREEPRAPW  
IEQEGPEYWDNRNTQIYKAQAQTDRESLRNLRGYYNQSEAGSHTLQSMYGCDVGPDGRLLRGHDQYAYDGKDYIAL  
NEDLRSWTAADTAAQITQRKWEAAREAEQRRAYLEGECEVEWLRRYLENGKDKLERADPPKTHVTHHPISDHEATL  
RCWALGFYPAEITLTWQRDGEDQTQDTELVEITRPAGDRTFQWAAVVVPSGEEQRYTCHVQHEGLPKPLTLRWEF  
SSQSTVPIVGIVAGLAVLAVVVIGAVVAAMCRRKSSGGKGGSYSQAACSDSAQGSQDVSLTA

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**FIGURE 2157**

GGCGCCCCGAACCGTCTCTCCTGCTGCTCTCGGCGGCCCTGGCCCTGACCGAGACCTGGGCGCCCCAGGCTCCCA  
CTCCATGAGGTATTTTCGACACCGCCATGTCCCGGCCCGGCCGCGGGGAGCCCCGCTTCATCTCAGTGGGCTACGT  
GGACGACACGCAGTTCGTGAGGTTTCGACAGCGACGCCGCGAGTCCGAGAGAGGAGCCGCGGGCGCCGTGGATAGA  
GCAGGAGGGGGCCGGAGTATTGGGACCGGAACACACAGATCTTCAAGACCAACACACAGACTGACCGAGAGAGCCT  
GCGGAACCTGCGCGGCTACTACAACCAGAGCGAGGCCGGGTCTCACACCCTCCAGAGCATGTACGGCTGCGACGT  
GGGGCCCGACGGGCGCCTCCTCCGCGGGCATAACCACTACGCTACGACGGCAAGGATTACATCGCCCTGAACGA  
GGACCTGCGCTCCTGGACCGCGGCGGACACCGCGGCTCAGATCACCCAGCGCAAGTGGGAGGCGGCCCGTGTGGC  
GGAGCAGGACAGAGCCTACCTGGAGGGCACGTGCGTGGAGTGGCTCCGCAGATACCTGGAGAACGGGAAGGACAC  
GCTGGAGCGCGCGGACCCCCCAAAGACACACGTGACCCACCACCCCATCTCTGACCATGAGGCCACCCTGAGGTG  
CTGGGCCCCTGGGCTTCTACCCTGCGGAGATCACACTGACCTGGCAGCGGGATGGCGAGGACCAAACCTCAGGACAC  
TGAGCTTGTGGAGACCAGACCAGCAGGAGATAGAACCTTCCAGAAGTGGGCAGCTGTGGTGGTGCCTTCTGGAGA  
AGAGCAGAGATACACATGCCATGTACAGCATGAGGGGCTGCCGAAGCCCCTCACCCTGAGATGGGAGCCGTCTTC  
CCAGTCCACCGTCCCCATCGTGGGCATTGTTGCTGGCCTGGCTGTCCTAGCAGTTGTGGTTCATCGGAGCTGTGGT  
CGCTGCTGTGATGTGTAGGAGGAAGAGCTCAGGTGGAAAAGGAGGGAGCTACTCTCAGGCTGCGTGCAGCGACAG  
TGCCCAGGGCTCTGATGTGTCTCTCACAGCTTGAAAAGCCTGAGACAGCTGTCTTGTGAGGGACTGAGATGCAGG  
ATTTCTTCACGCCTCCCCTTTGTGACTTCAAGAGCCTCTGGCATCTCTTTCTGCAAAGGCACCTGAATGTGTCTG  
CGTCCCTGTTAGCATAATGTGAGGAGGTGGAGAGACAGCCCACCCTTGTGTCCACTGTGACCCCTGTTCCCATGC  
TGACCTGTGTTTCCCTCCCAGTCATCTTTCTTGTTCAGAGAGGTGGGGCTGGATGTCTCCATCTCTGTCTCAAC  
TTTACGTGCACTGAGCTGCAACTTCTTACTTCCCTACTGAAAATAAGAATCTGAATATAAATTTGTTTTCTCAA  
TATTTGCTATGAGAGGTTGATGGATTAATTAATAAGTCAATTCCTGGAATTTGAGAGAGCAAATAAAGACCTGA  
GA

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**FIGURE 2158**

MLVMAPRTVLLLLLSAALALTETWAGSHSMRYFDTAMSRPGRGEPRFISVG YVDDTQFVRFDSDAASPREEPRAPW  
IEQEGPEYWD RNTQIFKTNTQTDRESLRNLRGYYNQSEAGSHTLQSMYGCDVGPDGRLLRGHNQYAYDGKDYIAL  
NEDLRSWTAADTAAQITQRKWEAARVAEQDRAYLEGTCVEWLRRYLENGKDTLERADPPKTHVTHHPISDHEATL  
RCWALGFYPAEITLTWQRDGEDQTQDTEL VETRPAGDRTFQKWA AVVVP SGEEQRYTCHVQHEGLPKPLTLR WEP  
SSQSTVPIVGIVAGLAVLAVVIGAVVAAVMCRRKSSGGKGGSYSQAACSDSAQGS DVSLTA

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**FIGURE 2159**

CCGAGCTTCTTAAACACAGGCCTTGGGCCTACGGCTCTGGGGTACTTGGGGGGCGGGGGCAGGTCTGATGAGT  
AACCCCTCCCCCAGGTTCCAGAGGAAGAAGCCTCCACATCTGTCTGCCGGCCCAAGAGTTCCATGGCCTCCACT  
TCCCGCCGCCAACGCCGAGAACGTCGCTTTTCGTCGTTACTTGTCTGCAGGACGGCTGGTCCGGGGCCAGGCCCTC  
CTCCAGCGACACCCAGGCCTCGATGTAGATGCTGGGCAGCCCCACCACTGCACCGGGCCTGTGCCCGCCACGAT  
GCCCCTGCCCTGTGCCCTGCTGCTTCGGCTCGGGGCTGACCCTGCCCACCAAGGACCGCCATGGGGACACGGCACTG  
CATGCTGCTGCCCCGCCAGGGCCCAGATGCCTACACCGATTTCTTCTCCCGCTGCTAAGCCGCTGTCCCTCCGCC  
ATGGGAATAAAGAATAAGGATGGGGAGACCCCTGGCCAAATTTTGGGCTGGGGACCCCCCTGGGATTCTGCTGAA  
GAGGAGGAAGAAGATGATGCCTCCAAGGAGCGGGAATGGAGACAGAAGCTCCAGGGTGAGCTGGAGGACGAGTGG  
CAGGAAGTCATGGGGAGGTTTGAAGGTGATGCCTCCCATGAAACCCAGGAACCTGAGTCCTTCTCAGCCTGGTCA  
GATCGCCTGGCCCCGGGAACATGCCCAGAAGTGCCAGCAGCAGCAGCGAGAAGCAGAGGGATCCCGTCGACCCCCA  
CGTGCTGAGGGCTCCAGCCAGAGCTGGCGACAGCAGGAGGAGGAGCAGCGGCTCTTCAGGGAGCGAGCCCGGGCC  
AAGGAGGAAGAGCTGCGTGAGAGCCGAGCCAGGAGGGCGCAGGAGGCTCTAGGGGACCGAGAACCCAAGCCAACC  
AGGGCCGGGGCCAGGGAAGAGCACCCCAGAGGAGCGGGGAGGGGCAGCCTCTGGCGATTGGTGATGTGCCCTGG  
CCCTGCCCTGGGGGAGGGGACCCAGAGGCCATGGCTGCAGCCCTGGTGGCCAGGGGCCCCCTTTGGAGGAACAG  
GGGGCTCTGAGGAGGTACTTGAGGGTCCAGCAGGTCCGCTGGCACCCCTGACCGCTTCTGCAGCGATTCCGAAGC  
CAGATTGAGACCTGGGAGCTGGGCCGTGTGATGGGAGCAGTGACAGCCCTTTCTCAGGCCCTGAATCGCCATGCA  
GAGGCCCTCAAGTGACCCTAGGGAAGAAGCAAGAACTTCGGGGCTGCAGCCTCAGGATGAGGCAGAAGGAAGGG  
TAAGGGAAGGATGGGGACCACAAGGAAGAGCCAGGTGCTGCTCAGCAGAGGATATGGGTGGGAGCGAAAGTTGT  
ACAAGTGGGGGTGGGGGTGCGGGCCGCCACCACTGCTCCTTGACTCTGCCGTTTCCTAATAAGACCTGGTTCC  
ACATCTC

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**FIGURE 2160**

TCTAATACCTATTGATCTGTTACTTTCTCCCATCACGCTCAGGTGGGAACATCCAGTTGCAGGAAAACAAGCTTA  
ACACGCCCCTGATTCTACATTATGGTGAGTTCTATAATTATTTTATTATATATTACAGTGTAATAATGGAAATA  
AAGTGCCTAATAAATGCAAATGTGCTTACATCTTTTGGCCCAGCTCCTACCTCCCGGCAGCCTCTCCAGGCCCAG  
AACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCTCAATGGCCTATTTAGGCCCATACCCTACGTCAC  
GGCAGCCTCCGCAGATGAGGCTACTGCCTCACAAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTT  
TAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTTGACCTCACCAGGCCAGCTC  
ATGCTTCTTTGCAGCCTCTCCAGGCCAGCTCCTGCATCTTGGTGGCCCTCCAGGCCAGCCTCTGCCTCCCGT  
CAGCCTCTACAGTCCCAACGTCTGCCTCACAGCAGATTCTTCAGCCCAGCTTCTACCTCACTTGGACCTCCAG  
ACCCAGATGGTGTCTCACTGTGGCATCCTCAGGTGAAGCTCCTGCCTTTCGGCAGCCTCTCCAGGCCAGCTCCT  
CCTGCCTCCCAGTGGCCTCTTTCGGCCCAGCCCAGCTCATGCCTCCCGGCGGCCTTCCCAAGCCCCGCTTTTGAC  
TTTCGGTGGCCTCTGCAGGCCTCGACAAGGCCAGCCTCCTGCCTCCCGAAGGCCTGCACAGGCCAGCCTCTGC  
CTCACAGCGGACTCTC



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**FIGURE 2161**

TGAGGGAGTGAGGGAAGCTTCCTCTGTATTTACAGCCACTCCCCTTTGCTCACATTCCCGCCTGAGCTCCACCTT  
CTCAGATGAGCAGCAGCATTAGATGCTCATAGGAGAACGCACCCTGTTGTGAACCATGCATGTGAGGGATCTAGG  
TTGCGCTGTCTTATGAGAGTCTAATACCTATTGATCTGTCACTTTCTCCCATCACGCTCAGGTGGGAACATCCA  
GTTGCAGGAAAACAAGCTTAACACGCCCCACTGATTCTACATTATGCTCCTACCTCCCGGCAGCCTCTCCAGGCCC  
AGAACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCAAATGGCCTATTTAGGCCCCATACCCTACGTC  
ACGGCAGCCTCCGCAGATGAGGCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTC  
TTTAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACATTCTCAGGTCTCCCTCTGTTGTCCAAGG  
CTGGAGTGTAGTAGTGCTATCGCAGCTGACTGCAGCCTCAACCTTCCAGGCTGAAGCGATCCTCCCACGTCAACC  
TCCACGTGGCTGAGACTACAGGTGCTTGCCACTATGCCCACTAATATTTGGAATTTTCATATACGTGGATTCC  
AGAGGGGTGACAGCGAAACGTGGGAACATCCAGTTGCAGGAAAACAAGCTTAACACGCCCCACTGATTCTACATTA  
TGCTCCTACCTCCCGGCAGCCTCTCCAGGCCCCAGAACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTC  
TCAATGGCCTATTTAGGCCCCATACCCTACGTCACGGCAGCCTCCGCAGATGAGGCTACTGCCTCACAACAGCCTC  
CACAGGCACAGCTCCATCGTTACAATGGCCTCTTTAGACCCAGCTCCTGCCTCCCAGCCTTCTC

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**FIGURE 2162**

MAYLGPYPTSRQPPQMRLPHNSLHRHSSIVTMASLDPAPASQPSLQALNFKLTSPGPAHASLQPLQAQLLHLG  
GPSRPSLCLPSASTVPTSASQQILHAQLLPHLDPPDPDGVSLWHPQVKLLPFGSLSRPSSSCLPVASFGPAQLMP  
PGGLPKPRF

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**FIGURE 2163**

GGCACGAGGGCCGGAAGGCGGCGTCCGCGACGCAGCTGTTACGCTTAGGTGGGCGACGTGGGCGCAGGTGGGCG  
CAGG**ATGG**CAAAACAGAAGAGAAAAGTTCCTGAAGTGACAGAGAAAAAGAACAAAAAGCTGAAGAAGGCGTCAGC  
AGAGGGGCCACTGCTGGGCCCTGAGGCTGCACCAAGTGGCGAAGGAGCCGGCTCCAAGGGCGAAGCTGTGCTCAG  
GCCCCGGGCTGGACGCAGAGCCAGAGCTGTCCCCAGAGGAGCAGAGGGTCCTGGAAAGGAAGCTGAAAAAGGAACG  
GAAGAAAGAGGAGAGGCAGCGTCTGCGGGAGGCAGGCCTTGTGGCCCAGCACCCGCCTGCCAGGCGCTCGGGGGC  
CGAACTGGCCCTGGACTACCTCTGCAGATGGGCCCAAAAGCACAAAGAACTGGAGGTTTCAGAAGACGAGGCAGAC  
GTGGCTCCTGCTGCACATGTATGACAGTGACAAGGTTCCCGATGAGCACTTCTCCACCCTGCTGGCCTACCTGGA  
GGGGCTGCAGGGCCGGGCCCCGAGAGCTGACGGTGCAGAAGGCGGAAGCCCTGATGCGGGAGCTGGATGAGGAGGG  
CTCTGATCCCCCCTGCCGGGGAGGGCCCAGCGCATCCGACAGGTGCTGCAGCTGCTCTCC**TAGT**GGGTTTCAGCG  
CGGGGCGGGGCCGCTGCCAGTGCAGGGCTGCCTCAGACCACACAGGGTGCAGCTCCTCCGGCGGTGGGGGCCGG  
GTTACACAGCAGGGCAGCGGCTGAGCAAGGGCTTTCAGCTCCTCCGGTGGTGGGGGCCGGGATCACCAGCACCAG  
AGCCTCGCAAGGGCCCCCTTCCCTCCTCCAGACCCTCCTTGGCCGGTGACGGCTGTGACAGTGATGGCAGGTTTCAG  
TGCCTTCAGCGCAGAGCGTGGATGCTCTGGAATCACCCGGACCCCTGGCCTTGGAGGGACCCTCCAGCCCCAGGA  
ATCTGCTTTGGAGGGAAATGTCTATTTTTCTACCGGGAATATTTTAGAGATTGGGGCATGCTGGCTCCTCCCGCC  
AGCTGCAAACCTGCACCTTCCGCCTGATTCCCGATCCCCCTGCGTGGGCCCGCATTCCTGGTCCCCTGCCTGCGTC  
CATCGAGGGGCCCTGGCTGTGGCCTGTTTTCCTTTGACCCACACAGCGTCATTGCGGGTCATGGGGAGCCCCTGG  
TGGGAGCTTGTGGAGTCGGATCACGTACCTGTGCAGAAACCGCCTCTGTGGCTGCATTTGAAATAAAACCCGACC  
CAGCAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2164**

MAKQKRKVPEVTEKKNKKLKKASAEGPLLGPEAAPSGEGAGSKGEAVLRPGLDAEPELSPEEQRVLERKLKKERK  
KEERQRLREAGLVAQHPPARRSGAELALDYLCRWAQKHKNWRFQKTRQTWLLHMYDSKVPDEHFSLLAYLEG  
LQGRARELTVQKAEALMRELDEEGSDPPLPGRAQRIRQVLQLLS

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**FIGURE 2165**

GCGGCGCGCTGCAGGCGCGGGGAACACCAATGCGGGGTACTTGAAGCTGGTGTGTGTTTCCTTTTCAGCGTCAAG  
GGTTCACACTGTTGGGAGTCGCTGCAAGAATCGGACAGGCGCTGAGCACCTGTGGCTGACCCGACATCTCAGGG  
ACCCATTTGTGAAGGCTGCGAAGGTGGAGAGTTACCGGTGTGGAAGCGCCTTCAAGCTCCTGGAGGTGAACGAGA  
GGCACCAGATTCTGCGGCCCGGCCTTCGGGTGTTAGACTGTGGGGCAGCTCCTGGGGCCTGGAGTCAGGTGGCGG  
TGCAGAAGGTCAACGCCGCAGGCACAGATCCCAGCTCTCCTGTTGGCTTCGTGCTTGGGGTAGATCTTCTTCACA  
TATCCCCCTGGAAGGAGCAACTTTTCTGTGCCCTGCTGACGTGACTGACCCGAGAACCTCACAGAGAATCCTCG  
AGGTGCTTCCTGGCAGGAGAGCAGATGTGATTCTGAGCGACATGGCGCCCAATGCCACAGGGTTCGGGGACCTCG  
ATCATGACAGGCTCATCAGCCTGTGCCTGACCCTTCTCAGCGTGACCCAGACATCCTGCAACCTGGGGGGACAT  
TCCTTTGTAAAACCTGGGCTGGAAGTCAAAGCCGTCGGTTACAGAGGAGACTGACAGAGGAATTCCAGAATGTAA  
GGATCATCAAACCTGAAGCCAGCAGGAAAGAGTCATCAGAAGTGTAATTCTTGGCCACACAGTACCACGGAAGGA  
AGGGCACTGTGAAGCAGTGAAGGATTTCTTGTGCCATTTTCATAATGGTCATTAGCTCCTTTTAAGCTAGAAACGT  
AGCCTGAGCTCCTGAAGAGTTCCTGGGAGATTTGAGCTGATTTTGGAGATGGAGCAGGACAAGTGGGGAGTCTCT  
CTCTCTCTTCTCTCTCTCTTTTTTAACCAAAAAGAGATGACAAAACCTAAGTTCAGGGGCCATGGAAAATGAAA  
AAGTCCGCTATATTGTGATTTGGGAAGAGAAAAGTTATCAAGAGAAAAGAGGTGAGGATGGAAGGATGGAGAAAAAC  
AGACTGTGGGAAGGATCAGAAGGAATCCGCCGAGGCAGGGATGGGTGTGCCCATGTGTGCCTTGACGGGACTTCA  
TCTTATAGACTGTTAACTGTACACACAAAACAGGCTTTCCACCCCTGCTCTGAGAGCACCACGCACAGATTTCC  
AGTTCTTAGTGTGGCTGTTTAAAGTAGAAAATCTGGGGGCTGGGTGAGGCCACTCATGCCTGTAAACCCAGGGCT  
TTAGAAGGCTGAGGCTGGGGGATTGCTTGAAGTCAGGAGTTCAAGACCAACCTGGGCAACATAGCAACACCCCCC  
ATGTCTACAAAATGAAAAACAAAAAGCAAACCAAAAGAAAAATCTGAAATTTCCATCTGGGGATTAACTTCTG  
TCTTTCTGGTGAACAATATAGCAATTCACGCATTCTTCAAGCAGCAAAAGTTCCCGGAACAATTAGGGAAGACGT  
ATGGTCTGAATTTATCCAGGCAGTGGGTCTGCTTTGGTTTTTGTCTGGAAATTTATATCAGTGTCTGGGCTCCCAA  
GAACATAAATGTAATTGCCAAAGCAAAAAA

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**FIGURE 2166**

MAGYLKLVCSFQRQGFHTVGSRCKNRTGAHLWLTRHLRDPFVKAAKVESYRCRSFAFKLLEVNERHQILRPGLR  
VLDCGAAPGAWSQVAVQKVNAAGTDPSSPVGVLGVDLLHIFPLEGATFLCPADVTDPRTSQRILEVLPGRADV  
ILSDMAPNATGFRDLHDRLISLCLTLLSVTPDILQPGGTFLCKTWAGSQSRRLQRRLTEEFQNVRIIKPEASRK  
ESSEVYFLATQYHGRKGTVKQ

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**FIGURE 2167**

CGGCGGCCGCGGAGCCCTGCGAGTAGGCAGCGTTGGGCCCATGCAGGACGCGGAGAACGTGGCGGTGCCCGAGGC  
GGCCGAGGAGCGCGCCGAGCCCGGCCAGCAGCCGGCCGCCGAGCCGCCAGCCGAGGGGCTGCTGCGGCC  
CGCGGGGCCCCGCGCTCCGGAGGCCGCGGGGACCGAGGCCTCCAGTGAGGAGGTGGGGATCGCGGAGGCCGGGCC  
GGAGTCCGAGGTGAGGACCGAGCCGGCGGCCGAGGCAGAGGCGGCCTCCGGCCCCGTCCGAGTCGCCCTCGCCGCC  
GGCCGCCGAGGAGCTGCCCGGGTTCGATGCTGAGCCCCCTGTCCCGGCACAGGGCGAGGCCCCAGGAGAGCAGGC  
TCGGGACGAGCGCTCCGACAGCCGGGCCAGGCGGTGTCCGAGGACGCGGGAGGAAACGAGGGCAGAGCGGCCGA  
GGCCGAACCCCGGGCGCTGGAGAACGGCGACGCGGACGAGCCCTCCTTCAGCGACCCCGAGGACTTCGTGGACGA  
CGTGAGCGAGGAAGAATTACTGGGAGATGTACTCAAAGATCGGCCCCAGGAAGCAGATGGAATCGATTGGGTGAT  
TGAGTGGACAATGTCCCTCAGGTGGGACCCGACCGACTTGAGAACTCAAAAATGTCATCCACAAGATCTTTTC  
CAAGTTTGGGAAAATCACAAATGATTTTATCCTGAAGAGGATGGGAAGACAAAAGGGTATATTTTCTGGAGTA  
CGCGTCCCCTGCCACGCTGTGGATGCTGTGAAGAACGCCGACGGCTACAAGCTTGACAAGCAGCACACATTCCG  
GGTCAACCTCTTTACGGATTTTGACAAGTATATGACGATCAGTGACGAGTGGGATATTCCAGAGAAAACAGCCTTT  
CAAAGACCTGGGGAACCTTACGTTACTGGCTTGAAGAGGCAGAATGCAGAGATCAGTACAGTGTGATTTTGGAG  
TGGAGACCGCACTTCCATATTCTGGAATGACGTAAAAGACCCTGTCTCAATTGAAGAAAGAGCGAGATGGACAGA  
GACGTATGTGCGTTGGTCTCCTAAGGGCACCTACCTGGCTACCTTTTCATCAAAGAGGCATTGCTCTATGGGGGG  
AGAGAAATTCAGCAAATTCAGAGATTCAGCCACCAAGGGGTTTACGCTTATTGACTTCTACCTTGTGAAAGGTA  
CCTGGTGACCTTTAGCCCCCTGATGGACACGCAGGATGACCCTCAGGCCATAATCATCTGGGACATCCTTACGGG  
GCACAAGAAGAGGGGTTTTCACTGTGAGAGCTCAGCCCATTTGGCCTATTTTTAAGTGGAGCCATGATGGCAAATT  
CTTTGCCAGAATGACCCTGGATACGCTTAGCATCTATGAACTCCTTCTATGGGTCTTTTGGACAAGAAGAGTTT  
GAAGATCTCTGGGATAAAAGACTTTTTCTTGGTCTCCTGGTGGTAACATAATCGCCTTCTGGGTGCTGAAGACAA  
AGATATTCCAGCCAGGGTAACCCTGATGCAGCTCCCTACCAGGCAAGAGATCCGAGTGAGGAACCTGTTCAATGT  
GGTGGACTGCAAGCTCCATTGGCAGAAGAACGGAGACTACTTGTGTGTGAAAGTAGATAGGACTCCGAAAGGCAC  
CCAGGGTGTGTGTCACAAATTTTGAATTTTCCGAATGAGGGAGAAAACAGGTACCTGTGGATGTGGTCGAGATGAA  
AGAAACCATCATAGCCTTTGCCTGGGAACCAATGGAAGTAAGTTTGCTGTGCTGCACGGAGAGGCTCCGCGGAT  
ATCTGTGTCTTTCTACCACGTCAAAAACAACGGGAAGATTGAACTCATCAAGATGTTTCGACAAGCAGCAGGCGAA  
CACCATCTTCTGGAGCCCCCAAGGACAGTTTCGTGGTGTGGCGGGCCTGAGGAGTATGAACGGTGCCTTAGCGTT  
TGTGGACACTTCGGACTGCACGGTCATGAACATCGCAGAGCACTACATGGCTTCCGACGTCGAATGGGATCCTAC  
TGGGCGCTACGTCGTCACCTCTGTGTCTGGTGGAGCCATAAGGTGGACAACGCGTACTGGCTGTGGACTTTCCA  
GGGACGCTCCTGCAGAAGAACAACAAGGACCGCTTCTGCCAGCTGCTGTGGCGGCCCCGGCCTCCCACTCCT  
GAGCCAGGAACAGATCAAGCAAATTAAGGATCTGAAGAAATACTCTAAGATCTTTGAACAGAAGGATCGTTT  
GAGTCAGTCCAAAGCCTCAAAGGAATTGGTGGAGAGAAGGCGCACCATGATGGAAGATTTCCGGAAGTACCGGAA  
AATGGCCCAGGAGCTCTATATGGAGCAGAAAAACGAGCGCCTGGAGTTGCGAGGAGGGGTGGACACTGACGAGCT  
GGACAGCAACGTGGACGACTGGGAAGAGGAGACCATTGAGTTCTTCGTCAGTGAAGAAATCATTCCCCTCGGGAA  
TCAGGAGTGACCTGGAGCACTGTGCGCAGCCGTGTGTGCTGTGGAGCCGAGGCCGTCTGCAGGAAGCCGCGTGA  
CTCCCGCTCCTCCTGTGCTCTCTGGCTCTGGACTGTGACTGCGCCTGGATTCTGCCATTGCGACACATTTTGT  
TGCCTTTCAGCCCTGGTGTCTGCAGTGGGGGATTTAAGGCACCCGCTTCCACTTCTTCTTGTGTTGGAGTTTTC  
TGTTGGAACCGCCGGCGTTGGCTCCGAAGACTTAGCGACGCCACTGGCGGCACCTTCTCCTGCGCCCAGTGATGT  
TTCCACGGTGCCTGTACACAGCCGAGCAGCATTTCGTTGAAGGACTTGATCCCCATTGCGGGCAGTGCTGGAC  
GTGTCCCGGAGACCCACCGGGAGGGCGCCGCCATGCCTTGTAACCCACCGTGCAGGTTGTGGCCGGTTTTCTCC  
GCAGGTTGAACATGGAAATAAAAGCAAACCTTGATG

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**FIGURE 2168**

GTGGAGCGACCGGCTTGCGCCTGCCTGTCCCCAGCCCCTCTCAGCTTGAACCTCCTTCCTTCAAGTCTGGGCCC  
TCGAGGCTTCCAGAGCGGCCTCCAGGGGTGCAGTCTCAGTTCCCCACGCCAGCCGTCTCCGTCTCCGCCTCCTC  
CGGGCCTGGCAGGTGGCACTGTCCGGAGGCGGAGCCTTGGGCGAGGGGTGGTTGCGGCGGAGGACGCAACCGAGC  
GGGCTGCGGCCTCACCATGGACCCAGAATGCGCCCAGCTGCTCCCGGCTCTCTGTGCTGTTCTGGTAGATCCCA  
GGCAGCCGGTGGCAGATGACACCTGTTTGGAGAAGCTCCTGGACTGGTTTAAAACGGTCACTGAAGGAGAGTCCA  
GTGTGCTGCTGCTGCAGGAGCACCCCTGCCTGGTGGAGCTGCTGTCCCATGTGCTGAAAGTCCAGGACCTGAGTT  
CTGGGGTCTCTCCTTCTCACTGCGCCTGGCAGGAACCTTCGCAGCCCAGGAAAACCTGCTTCCAGTATCTTCAGG  
TGCGGTGACACCATCTTCTCCCTGCAGGGAGACTCCAGCCTGTTTGTGGCCTCGGCGGCCAGTCAGCTCCTGGT  
GCACGTCTGGCTTTGTCCATGCGAGGTGGAGCCGAGGGGCGAGCCCTGCCTGCCGGGGGGTGAAGTGGCCCGCTG  
TGCCCAAGATCATGGATCACGTTGAAGAGTCCTTGTGCTCCGCGGCCACCCCCAAGGTCACTCAGGCCCTGAA  
CGTCTGACCACGACCTTCGGGCGCTGCCAGAGCCCCTGGACGGAAGCCCTGTGGGTGCGGCTGAGTCCCCGCGT  
GGCCTGTCTGCTGGAGAGAGACCCCATCCCCGCGCACACTCGTTTCGTGGACCTGCTTCTCTGTGTGGCTCGTTC  
TCCCGTGTTCAGTTCTTCCGACGGCAGCCTGTGGGAGACAGTGGCGGGGCTCTGAGCTGCCTGGGTCCCACCCA  
CATGGGACCCCTGGCTTTGGGGATCCTGAAGCTCGAGCACTGTCCACAGGCACTGAGGACCCAGGCCTTCCAGGT  
CCTTCTCCAGCCCCTGGCCTGTGTCTGAAGGCCACGGTTCAGGCCCCCGACCCCAAGGCTTGTGGACGGGAC  
GGCAGACGATGCCACGACGGTGGACACACTCCTGGCCTCCAAGTCGTCTGCGCGGCCTCCTGTGCCGCACCCT  
GGCTCACCTGGAGGAGCTGCAGCCGCTGCCCCAGCGCCCTTACCCTGGCCCCAGGCGTCTCTACTGGGGGCTAC  
AGTGACTGTCTGCGGCTCTGTGACGGCTCGGCTGCCCTGCCTCCAGTGTGGGGGGCCACCTCTGTGGGACCCCT  
GGCGGGGTGCGTCCGGGTCCAGCGAGCAGCCCTCGACTTCCTGGGGACGCTGTACAGGGGACAGGCCCCCAGGA  
GCTGGTGACGCAGGCGCTTGTGTCTCCTGAGTGCCTCGAGAGCCCCGGCTCCAGCCCCACGGTTCTGAAGAA  
GGCCTTCCAGGCCACGCTCAGGTGGCTCCTGAGCTCACCCAAGACCCCCGGCTGCTCTGATCTCGGCCCCCTCAT  
CCCGCAGTTCTCAGAGAGCTGTTCCCTGTGCTGCAGAAACGCTGTGCCACCCCTGCTGGGAGGTGAGGGACTC  
CGCCCTCGAGTTCTGACCCAGCTGAGCAGGCACTGGGGAGGACAGGCTGACTTCAGATGCGCACTCTTGCTTC  
AGAGGTGCTCAGCTGGCCCTGCAGCTCCTCCAGGACCTGAGAGTTATGTCCGAGCGAGTGCAGTGACCGCCAT  
GGGGCAGCTGTCCAGCCAGGGCCTGCACGCCCCACCAGCCCTGAGCATGCAGAGGGCCCGGCAGAGCCTGTTCT  
GGAGCTCCTGCACATCTCTCCGTAGACTCGGAGGGCTTCCACGGCGGGCGGTCTATGCAAGTCTTCACTGAGTG  
GCTGCGGGACGGCCACGCCGACGCGGCCAGGACACGGAGCAGTTCGTGGCCACTGTGCTGCAGGCGGCGAGCCG  
AGACCTGGACTGGGAGGTCCGCGCCAGGGCCTGGAGCTGGCCCTCGTGTCTCCTGGGCCAGACTTTGGGGCCGCC  
GCGTACCCACTGCCCCATATGCCGTGGCCCTACCCGAGGTGGCCCCAGCCCAGCCACTACCGAGGCACTGAGGGC  
TCTCTGCCACGTGGGGCTCTTTGACTTCGCCTTTTGTGCCTTGTGTTGACTGCGACCGCCCTGTGGCGCAGAAGTC  
TTGTGACCTCCTTCTCTTCTGAGGGACAAGATTGCTTCTACAGCAGCCTGCGGGAGGCCAGGGGCAGCCCCAA  
CACTGCCTCCGCAGAGGCCACCCCTGCCGAGGTGGCGGGCGGGTGAAGCAGGCCAGCCCCAGGGGACCAGGAGCC  
TGAGGCTGTGCTGGCCATGCTCAGGTCCCTAGACCTGGAGGGCCTGCGGAGCACGCTGGCCGAGAGCAGCGACCA  
CGTGAAAAGAGTCCCCAGTCCCTCCTGCAGGACATGCTGGCCACGGGAGGCTTCCTGCAGGGGGACGAGGCCGA  
CTGCTACTGAGCAGAACCAGAGTCTGCCACTGGGGCTCAGGACCAAGGGAGGCAGCACCATGTCCTTCTGTGGGA  
CACTGCCAGCCCCAGGGCTCCAGCCCAGCCCGGTGGATCCTCTGGGGAAGCCAGGACCAGGAGAGAAGCAAGGTC  
AAGAAATCCCACAGTTTGATGTATTAAAGAAATGACTTATTTCTACTCAAATAAATGGCATTGAAGTCTTCTT

T



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**FIGURE 2169**

MRGGAEGQPCLPGGDWPACAQKIMDHVEESLCSAATPKVTQALNVLTTFGRCQSPWTEALWVRLSPRVACLLER  
DPIPAAHSFVDLLLCVARSPVFSSSDGSLWETVARALSCLGPTHMGPLALGILKLEHCPQALRTQAFQVLLQPLA  
CVLKATVQAPGPPGLLDGTADDATTVDTLASKSSCAGLLCRTLAHLEELQPLPQRPSWPQASLLGATVTVLRL  
CDGSAAPASSVGGHLCGTLAGCVRVQRAALDFLGTLTSGTGPOELVTQALAVLLECLESPGSSPTVLKKAQATL  
RWLLSSPKTPGCSDLGPLIPQFLRELFPVLQKRLCHPCWEVRDSALEFLTQLSRHWGGQADFRCALLASEVPQLA  
LQLLDPESEYVRASAVTAMGQLSSQGLHAPTSPEHAEARQSLFLELLHILSVDSSEGFPRAVMQVFTEWLRDGH  
DAAQDTEQFVATVLAASRDLDWEVRAQGLELALVFLGQTLGPPRTHCPYAVALEVAPAQPLTEALRALCHVGL  
FDFAFCALFDCDRPVAQKSCDLLFLRDKIASYSSLREARGSPNTASAEATLPRWRAGEQAQPPGDQEP EAVLAM  
LRSLDLEGLRSTLAESSDHVEKSPQSLLQDMLATGGFLQGDEADCY



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**FIGURE 2170B**

CCTGCGACCGCTCAGAAGCACAAATGCTGTCCATGGCCGTGAGGCTGCCTGCCAGGTGAATGGACATAGCGTGAG  
AGGCGGTGAGGCCAGGGCTTCCAGCCTCGTGCTGTCTCGGGACTCCTGACCGTGGTGTGCGTGTGTGCCCCGTCTG  
TGACTTTCTACTCACCAAGGTTGAAGAAAGGAAACGGGGAAAATCAAAAGGGGTTCAAACCCACCTCAGTAGGT  
GGAGGGGAGCGCCTGCCATTGGTTGTATTTTTGTTCTGAGTTTTTCGGTGCCGTGTTCCCTAACTACTCCATCCCAT  
GACCTCGCCACACCTACTGGGGCATCTGGCTGGTGCCTGCTGCCATGGCCAGCCCCACTCTCACCCTGCACAGG  
GGGTCTTGCAGCCCCCAGGCCACAGCCTCGTTGGGAGGACAGGGTGGCCCTGGGGACAAGAGGGAGGAGCCCAG  
GGGCTTACCTCACTGAGAGTGCTCCCCAGCAGGCATCCACTACCCAGGGCCCCCACCATGTCATGGCAAGGTTG  
GTAGTGAATGGGCCTGGTTGGGAGCAGCCCCTGGCCCATTGCCCCACCCACCCATCTCACTATGCAATTCGAGTTC  
CAAGCAACATTTGCTCCTGCCCTGGGGCCAGCTCTGCCCCAGCCCTGAGAGGGGTGGTGAGGCAGCCCCCTGGAC  
CCCAGAACCCAGACAAGGGGGCAGGCGGGGACCAGGGCCTCTCCTGTGGGATCTTTGTTTTGTGTTTAACCAT  
AATGGTTGTGTACTGAACCACTTCATATTTGTTATATATAATATATATATATAATCTCCTTAAGACTCAGCCT  
CCTGGTTTACCCCCCGGCCTGGGCATCTGACCTCCCCACCCAGTGATTTAACATCCAGGAAGTGAAGCCT  
GAACCATTTTGCAATTTCCCCCTCCTCCAGCCTCTGTAGGGCCATGGCTGTATGTACTGTCGCTGIGTTTTTTGT  
TTTTTTAGAACTGGGTTTGGGGGCTGATTTTTATTTCTTTGGGGGCTTTTTTTCTTGCGCAAATACTAAAAATCTC  
GTCAATGTAATTTCTGTGGTTTCTATTAGCTTGGGTTTCATGTTTTAAATAAAATTTTAAAAAGC

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**FIGURE 2171**

MAGVSYAAPWWVSLHRLPHFDLSWEATSSQFRPEDTDYQQALLLLGAAALACLALDLLFLLFYFWLCCRRRKS  
EEHLDADCCCTAWCVIIATLVCSAGIAVGFGNGETSDGIHRATYSLRHANRTVAGVQDRVWDTAVGLNHTAEP  
LQTLERQLAGRPEPLRAVQRLQGLLETLLGYTAAIPFWRNTAVSLEVLAEQVDLYDWYRVCLLGVLALVISW  
GLELAVSVGSSDFCVDPDAYVTMVEEYSVLSGDILQYYLACSPRAANPFQQKLSGSHKALVEMQDVVAELLRT  
PWEQPATKDPLLRVQEVNLNGTEVNLQHLTALVDCRSLHLDYVQALTGFCYDGVGLIYLLALFSFVTALMFSSIV  
SVPHTWQQKRGPDDEGEEEAAPGPRQAHDLSLYRVHMPSLYSCGSSYGSETSIPAAAHTVSNAPVTEYMSQANFQ  
NPRCENTPLIGRESPPPSYTSSMRAYLATSQPRPDSSGSH

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**FIGURE 2172**

ACAGAACAGAGAGAAAGGAACCTTTGTCTTTTCGTGTGAATGCTCGTGAGGGGGCCATCCTTAGAGTGGAATGCTC  
CTGAGGCTCCAGCGAATCAAGACCCTCAGACCCCGGGCTGTCCCCACCCCATGACCACATGTTCCGCAGGCA<sup>ˆ</sup>CC  
CTCAGCGCTGTGCCCTGCGTGTGCGCCAGGCAGGTGTTTGTGTTTTGAGCGCAGATTCTGCCTGTGGCATAGCCAT  
GTGGAGATGTTACGCATGTACTTCCCTTTGTGATTTACGCCGATACGGAAGATGTGTGCATTGTAGAGAGATTG  
TTCTCCAGCAGCCTAGTGGCCATCGTGAGCCTTAAAGCACCAAGGAAGCTAAAGGTTTGCCACTTTAAGAAGGGA  
ACTGAGATCTGCAACTACAGCTACTCCAACACGATTCTGGCTGTGAAGCTCAACAGGCAGAGGCTGATAGTATGC  
CTGGAGGAGTCCCTGTACATCCACAACATTCGGGACATGAAGGTGCTGCATACGATCAGGGAGACGCCTCCAAAC  
CCTGCAGGCCTGTGTGCGCTGTCAATCAACAACGACAACCTGCTACTTGGCGTACCCAGGGAGCGCGACCATCGGA  
GAGGTGCAGGTCTTCGATAACCATTAATTTGAGAGCTGCAAACATGATTCCGGCTCACGACAGTCCTTTAGCGGCA  
CTGGCCTTTGACGCAAGTGGAACATAACTTTGCCACGGCTTCGGAGAAGGGGACCGTGATTAGGGTATTTTCCATT  
CCAGAAGGACAAAACTCTTTGAGTTTCGGAGAGGAGTAAAGAGGTGCGTGAGCATCTGCTCCCTGGCCTTCAGC  
ATGGACGGCATGTTCCCTCTCCGCCTCCAGCAACACTGAGACCGTGACATCTTCAAACTCGAGACTGTGAAAGAA  
AAACCCCCAGAGGAGCCCACCACCTGGACCGGGTACTTCGGGAAAGTGCTCATGGCCTCCACCAGCTACCTGCCT  
TCCCAAGTGACAGAAATGTTCAACCAGGGCAGAGCTTTGCCACGGTCCGCCTGCCATTCTGCGGCCACAAAAAC  
ATCTGCTCGCTAGCCACAATTCAGAAGATCCCGCGGTTGTTGGTGGGTGCCGCCGACGGGTACCTGTACATGTAC  
AACCTGGACCCCCAGGAGGGCGGCGAGTGTGCCCTGATGAAGCAGCACCGGCTGGACGGCAGTCTGAAAACGACC  
AATGAGATCTTGGACTCTGCCTCTCACGACTGCCCTTAGTCACTCAGACATACGGCGCAGCTGCAGGAAAAGCC  
TACACAGACGACCTGGGTGCTGTGGGTGGCGCCTGCCTGGAGGACGAGGCCAGCGCCCTGCGCCTGGATGAGGAC  
AGCGAGCACCCGCCCATGATTCTTCGGACTGACTTGAACTTGACCTGTGACCTCTGACCCGGGGAGCAGAGAACAC  
TGGCTTCACAGAGGACTTTGTGCATTGCTGCTATGAACTTGACCTGAGTCGGGGGAGAGGATGGCAGAGACTTT  
ATT

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**FIGURE 2173**

MLLRLQRIKTLRPPGCPHPMTTCSAGTILSAVPCVSPRQVFVFERRFCLWHSVEMFTHVLPFVISADTEDVCIVE  
RLFSSSLVAIVSLKAPRKLKVCHFCKGTEICNYSYSNTILAVKLNQRRLIVCLEESLYIHNRDMKVLHTIRETP  
PNPAGLCALSINNDNCYLAYPGSATIGEVQVFDITNLRAANMIPAHDSPLAALAFDASGKLTASEKGTVIRVF  
SIPEGQKLFEFRRGVKRCVSICSLAFSMDGMFLSASSNTETVHIFKLETVKEKPPEEPTTWTGYFGKVLMASTSY  
LPSQVTEMFNQGRAFATVRLPFCGHKNICSLATIQQIPRLLVGAADGYLYMYNLDPOEGGECALMKQHRLDGSLK  
TTNEILDSASHDCPLVTQTYGAAAGKAYTDDLGA VGGACLEDEASALRLDEDSEHPPMILRTD

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**FIGURE 2174**

CGCGTCCGCCCCGCGAGCACAGAGCCTCGCCTTTGCCGATCCGCGCCCGTCCACACCCGCGCCAGCTCACCAT  
GGATGATGATATCGCCGCGCTCGTCGTCGACAACGGCTCCGGCATGTGCAAGGCCGGCTTCGCGGGCGACGATGC  
CCCCGGGCGCTCTTCCCCTCCATCGTGGGGCGCCCCAGGCACCAGGGCGTGATGGTGGGCATGGGTGAGAAGGA  
TTCCTATGTGGGCGACGAGGCCAGAGCAAGAGAGGCATCCTCACCCTGAAGTACCCCATCGAGCACGGCATCGT  
CACCAACTGGGACGACATGGAGAAAATCTGGCACCACACCTTCTACAATGAGCTGCGTGTGGCTCCCGAGGAGCA  
CCCCGTGCTGCTGACCGAGGCCCCCTGAACCCCAAGGCCAACC GCGAGAAGATGACCCAGATCATGTTTGAGAC  
CTTCAACACCCAGCCATGTACGTTGCTATCCAGGCTGTGCTATCCCTGTACGCCTCTGGCCGTACCACTGGCAT  
CGTGATGGACTCCGGTGACGGGGTCACCACACTGTGCCATCTACGAGGGGTATGCCCTCCCCATGCCATCCT  
GCGTCTGGACCTGGCTGGCCGGGACCTGACTGACTACCTCATGAAGATCCTCACCAGCGCGGGCTACAGCTTCAC  
CACCACGGCCGAGCGGGAAATCGTGCGTGACATTAAGGAGAAGCTGTGCTACGTGCGCCTGGACTTCGAGCAAGA  
GATGGCCACGGCTGCTTCCAGCTCCTCCCTGGAGAAGAGCTACGAGCTGCCTGACGGCCAGGTCATCACCATTGG  
CAATGAGCGGTTCCGCTGCCCTGAGGCACTCTTCCAGCCTTCCTTCCCTGGGCATGGAGTCTGTGGCATCCACGA  
AACTACCTTCAACTCCATCATGAAGTGTGACGTGGACATCCGCAAAGACCTGTACGCCAACACAGTGCTGTCTGG  
CGGCACCACCATGTACCCTGGCATTGCCGACAGGATGCAGAAGGAGATCACTGCCCTGGCACCCAGCACAAATGAA  
GATCAAGATCATTGCTCCTCCTGAGCGCAAGTACTCCGTGTGGATCGGCGGCTCCATCCTGGCCTCGCTGTCCAC  
CTTCCAGCAGATGTGGATCAGCAAGCAGGAGTATGACGAGTCCGGCCCCCTCCATCGTCCACCGCAAATGCTTCTTA  
GGCGGACTATGACTTAGTTGCGTTACACCTTTCTTGACAAAACCTAACTTGCGCAGAAAACAAGATGAGATTGG  
CATGGCTTTATTGTTTTTTTTTGTGTTTTGTTTTGGTTTTTTTTTTTTTTTTTTGGCTTGACTCAGGATTTAAAACTG  
GAACGGTGAAGGTGACAGCAGTCGGTTGGAGCGAGCATCCCCAAAGTTCACAATGTGGCCGAGGACTTTGATTG  
CACATTGTTGTTTTTTTTTAATAGTCATTCCAAATATGAGATGCATTGTTACAGGAAGTCCCTTGCCATCCTAAAAG  
CCACCCCACTTCTCTCTAAGGAGAATGGCCAGTCCTCTCCCAAGTCCACACAGGGGAGGTGATAGCATTGCTTT  
CGTGTAATTATGTAATGCAAAATTTTTTAATCTTCGCCCTAATACTTTTTTTATTTTGTGTTTTATTTGAATGAT  
GAGCCTTCGTGCCCCCCTTCCCCCTTTTTGTCCCCAACTTGAGATGTATGAAGGCTTTTGGTCTCCCTGGGAG  
TGGGTGGAGGCAGCCAGGGCTTACCTGTACACTGACTTGAGACCAGTTGAATAAAAGTGCACACCTTA

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**FIGURE 2175**

MDDDI AALVVDNGSGMCKAGFAGDDAPRAVFPSIVGRPRHQGVMMGMGQKDSYVGDEAQSKRGILTLKYPIEHGI  
VTNWDDMEKIWHHTFYNELRVAPEEHPVLLTEAPLNPKANREKMTQIMFETFNTPAMYVAIQAVLSLYASGRITG  
IVMDSGDGVTHTVPIYEGYALPHAILRLDLAGRDLDYLMKILTERGYSFTTTAEREIVRDIKEKLCYVALDFEQ  
EMATAASSSSLEKSYELPDGQVITIGNERFRCPEALFQPSFLGMESCGIHETTFNSIMKCDVDIRKDLYANTVLS  
GGTMYPGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILASLSTFQQMWISKQEYDESGPSIVHRKCF



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**FIGURE 2176**

GCGGAGGGTGCGTGCGGGCCGCGGCAGCCGAACAAAGGAGCAGGGGCGCGCCGCGCAGGGACCCGCCACCCACCTC  
CCGGGGCCGCGCAGCGGCCCTCTCGTCTACTGCCACCATGACCGCCAACGGCACAGCCGAGGCGGTGCAGATCCAG  
TTCGGCCTCATCAACTGCGGCAACAAGTACCTGACGGCCGAGGCGTTTCGGGTTCAAGGTGAACGCGTCCGCCAGC  
AGCCTGAAGAAGAAGCAGATCTGGACGCTGGAGCAGCCCCCTGACGAGGCGGGCAGCGCGGCCGTGTGCCTGCGC  
AGCCACCTGGGCGCTACCTGGCGGGCGGACAAGGACGGCAACGTGACCTGCGAGCGCGAGGTGCCCGGTCCCGAC  
TGCCGTTTCCCTCATCGTGGCGCACGACGACGGTCTGCTGGTCTGCTGAGTCCGAGGCGCACCGGCGCTACTTCCGC  
GGCACCGAGGACCGCCTGTCTGCTTCGCGCAGACGGTGTCCCCGCGGAGAAGTGGAGCGTGCACATCGCCATG  
CACCTCAGGTCAACATCTACAGTGTACCCGTAAGCGCTACGCGCACCTGAGCGCGCGGGCCGGCCGACGAGATC  
GCCGTGGACCGCGACGTGCCCTGGGGCGTCTGACTCGCTCATCACCTCGCCTTCCAGGACCAGCGCTACAGCGTG  
CAGACCGCCGACCACCGCTTCTGCGCCACGACGGGCGCCTGGTGGCGCGCCCCGAGCCGGCCACTGGCTACACG  
CTGGAGTTCGCTCCGGCAAGGTGGCCTTCCGCGACTGCGAGGGCCGTTACCTGGCGCCGTGCGGGGCCAGCGGC  
ACGCTCAAGGCGGGCAAGGCCACCAAGGTGGGCAAGGACGAGCTCTTTGCTCTGGAGCAGAGCTGCGCCCAGGTC  
GTGCTGCAGGCGGCCAACGAGAGGAACGTGTCCACGCGCCAGGGTATGGACCTGTCTGCCAATCAGGACGAGGAG  
ACCGACCAGGAGACCTTCCAGCTGGAGATCGACCGCGACACCAAAAAGTGTGCCTTCCGTACCCACACGGGCAAG  
TACTGGACGCTGACGGCCACCGGGGGCGTGCAGTCCACCGCCTCCAGCAAGAATGCCAGCTGCTACTTTGACATC  
GAGTGGCGTGACCGGCGCATCACACTGAGGGCGTCCAATGGCAAGTTTGTGACCTCCAAGAAGAATGGGCAGCTG  
GCCGCTCGGTGGAGACAGCAGGGGACTCAGAGCTCTTCTCATGAAGCTCATCAACCGCCCCATCATCGTGTTT  
CGCGGGGAGCATGGCTTCATCGGCTGCCGCAAGGTACGGGCACCCCTGGACGCCAACCGCTCCAGCTATGACGTC  
TTCCAGCTGGAGTTCAACGATGGCGCCTACAACATCAAAGACTCCACAGGCAAATACTGGACGGTGGGCAGTGAC  
TCCGCGGTACACAGCAGCGCGACACTCCTGTGGACTTCTTCTTCGAGTTCTGCGACTATAACAAGGTGGCCATC  
AAGGTGGGCGGGCGCTACCTGAAGGGCGACACGCGAGGCGTCTGAAGGCCTCGGCGGAAACCGTGGACCCCGCC  
TCGCTCTGGGAGTACTAGGGCCGGCCCGTCTTCCCCGCCCCCTGCCCACATGGCGGCTCCTGCCAACCTCCCTG  
CTAACCCCTTCTCCGCCAGGTGGGCTCCAGGGCGGGAGGCAAGCCCCCTTGCTTTCAAACCTGGAAACCCAGAG  
AAAACGGTGCCCCCACCTGTGCCCCCTATGGACTCCCCACTCTCCCCCTCGCCCGGGTTCCCTACTCCCTCGGG  
TCAGCGGCTGCGGCCTGGCCCTGGGAGGGATTTAGATGCCCCCTGCCCTCTTGCTGCCACGGGGCGAGTCTGGC  
ACCTCTTTCTTCTGACCTCAGACGGCTCTGAGCCTTATTTCTCTGGAAGCGGCTAAGGGACGGTTGGGGGCTGGG  
AGCCCTGGGCGTGTAGTGTAAGTGAATCTTTTGCCTCTCCAGCCACCTCCTCCCAGCCCCCAGGAGAGCTGG  
GCACATGTCCCAAGCCTGTAGTGGCCCTCCCTGGTGCAGTGTCCCCGAAACCCCTGCTTGGGAAGGGAAGCTGT  
CGGGAGGGCTAGGACTGACCCTTGTGGTGTTTTTTTGGGTGGTGGCTGGAAACAGCCCCCTCTCCACGTGGGAGA  
GGCTCAGCCTGGCTCCCTTCCCTGGAGCGGCAGGGCGTGACGGCCACAGGGTCTGCCCGCTGCACGTTCTGCCAA  
GGTGGTGGTGGCGGGCGGGTAGGGGTGTGGGGGCCGTCTTCTCTGTCTCTTTTCTTTTACCCTAGCCTGACTG  
GAAGCAGAAAATGACCAAATCAGTATTTTTTTTAAATGAAATATTATTGCTGGAGGCGTCCCAGGCAAGCCTGGCT  
GTAGTAGCGAGTGATCTGGCGGGGGCGTCTCAGCACCTCCCCAGGGGGTGATCTCAGCCCCCTCTTTCCGTC  
CTTCCCGTCCAGCCCCAGCCCTGGGCTGGGCTGCCGACACCTGGGCCAGAGCCCCCTGCTGTGATTGGTGCTCCC  
TGGGCTCCCCGGGTGGATGAAGCCAGGCGTCGCCCCCTCCGGGAGCCCTGGGGTGAGCCGCCGGGGCCCCCTGCG  
TGCCAGCCTCCCCCGTCCCCAACATGCATCTCACTCTGGGTGTCTTGGTCTTTTATTTTTTTGTAAGTGTCAATTG  
TATAACTCTAAACGCCCATGATAGTAGCTTCAAACCTGGAAATAGCGAAATAAAATAACTCAGTCTGC

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**FIGURE 2177**

MTANGTAEAVQIQFGLINCGNKYLTAEAFGFKVNASASSLKKKQIWTLEQPPDEAGSAAVCLRSHLGRYLAADKD  
GNVTCEREVPGPDCRFLIVAHDDGRWSLQSEAHRRYFGGTEDRLSCFAQTVSPA EKWSVHIAMHPQVNIYSVTRK  
RYAHL SARP ADEI A VDRDVPWGVDSLITLAFQDQRYSVQTADHRFLRHDGRLVARPEPATGYTLEFRSGKVAFRD  
CEGRYLAPSGPSGTLKAGKATKV GKDELFALEQSCAQVVLQAANERNVSTRQGMDSL ANQDEETDQETFQLEIDR  
DTKKCAFRTHTGKYWTLTATGGVQSTASSKNASCYFDIEWRDRRITLRASNGKFVTSKKNQQLAASVETAGDSEL  
FLMKLINRPIIVFRGEHGFICRKVTGTLDANRSSYDVFQLEFNDGAYNIKDSTGKYWTVGSDSAVTSSGDTPVD  
FFFFEFC DYNKVAIKVGGRYLKGDHAGVLKASAETVDPASLWEY

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**FIGURE 2178**

CCGAACGCCCCGAGCAGGGTCAGAAGGGAGGTGGCCGGTCTCCGTCGTGACCTCTGACGGTTTCTGAGCGTTGGC  
CTTTGGCAGCGCTACACCCTTTTGCTTTGGTTCTGCCATGCCGATGTACCAGGTAAAGCCCTATCACGGGGGCG  
GCGCGCTCTCCGTGTGGAGCTTCCCACCTGCATGTACCGGCTCCCCAACGTGCACGGCAGGAGCTACGGCCCAG  
CGCCGGGCGCTGGCCACGTGCAGGAAGAGTCTAACCTGTCTCTGCAAGCTCTTGAGTCCCGCCAAGATGATATTT  
TAAAACGTCTGTATGAGTTGAAAGCTGCAGTTGATGGCCTCTCCAAGATGATTCAAACACCAGATGCAGACTTGG  
ATGTAACCAACATAATCCAAGCGGATGAGCCCACGACTTTAACCACCAATGCGCTGGACTTGAATTCAGTGCTTG  
GGAAGGATTACGGGGCGCTGAAAGACATCGTGATCAACGCAAACCCGGCCTCCCCTCCCCTCTCCCTGCTTGTGC  
TGCACAGGCTGCTCTGTGAGCACTTCAGGGTCCTGTCCACGGTGACACGCACTCCTCGGTCAAGAGCGTGCCCTG  
AAAACCTTCTCAAGTGCTTTGGAGAACAGAATAAAAAACAGCCCCGCCAAGACTATCAGCTGGGATTCACTTTAA  
TTTGAAGAATGTGCCGAAGACGCAGATGAAATTCAGCATCCAGACGATGTGCCCCATCGAAGGCGAAGGGAACA  
TTGCACGTTTCTTGTCTCTCTGTGTTTGGCCAGAAGCATAATGCTGTCAACGCAACCCTTATAGATAGCTGGGTAG  
ATATTGCGATTTTTTCAGTTAAAAGAGGGAAGCAGTAAAGAAAAAGCCGCTGTTTTCCGCTCCATGAACCTCTGCTC  
TTGGGAAGAGCCCTTGGCTCGCTGGGAATGAACTCACCGTAGCAGACGTGGTGTGTGGTCTGTACTCCAGCAGA  
TCGGAGGCTGCAGTGTGACAGTGCCAGCCAATGTGCAGAGGTGGATGAGGTCTTGTGAAAACCTGGCTCCTTTTA  
ACACGGCCCTCAAGCTCCTTAAGTGAATTGCCGTAAGTGAATTTAAAGGGTTTAGATTTTAAGAATGGTGCTCTT  
TCATGCCTATTATCAGTAAGGGGACTTGTATTAGAGTCAGAGTCTTTTATTTAGGCCAGTTGTCAAGTGTCAAT  
AAAAGCGCATCATGTAATTTA

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**FIGURE 2179**

MPMYQVKPYHGGGAPLRVELPTCMYRLPNVHGRSYGPAPGAGHVQEE SNLSLQALESRQDDILKRLYELKAAVDG  
LSKMIQTPDADLDVTNIIQADEPTTLTTNALDLNSVLGKDYGALKDIVINANPASPLSLLVLHRLLCHEFRVLS  
TVHTHSSVKSPENLLKCFGEQNKKQPRQDYQLGFTLIWKNVPKTQMKFSIQTMCPIEGEGNIARFLFSLFGQKH  
NAVNATLIDSWVDIAIFQLKEGSSKEKAAVFRSMNSALGKSPWLAGNELTVADVVLWSVLQQIGGCSVTVPANVQ  
RWMRSCENLAPFNTALKLLK

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**FIGURE 2180**

ATCGGAGTGTGGCAGTGCTGGGGCTGGCCGGCGGGCTGGGCTGCGGCCCGCGCGCGGCCGGCGGATGCAGGGGGGCA  
ACTCCGGGGTCCGCAAGCGCGAAGAGGAGGGCGACGGGGCTGGGGCTGTGGCTGCGCCCGGCCATCGACTTTC  
CCGCCGAGGGCCCCGACCCCGAATATGACGAATCTGATGTTCCAGCAGAAATCCAGGTGTTAAAAGAACCCTAC  
AACAGCCAACCTTCCCTTTTGCAGTTGCAAACCAACTCTTGCTGGTTTCTTTGCTGGAGCACTTGAGCCACGTGC  
ATGAACCAAACCCACTTCGTTCAAGACAGGTGTTTAAAGCTACTTTGCCAGACGTTTATCAAAATGGGGCTGCTGT  
CTTCTTTCACTTGTAGTGACGAGTTTAGCTCATTGAGACTACATCACAACAGAGCTATTACTCACTTAATGAGGT  
CTGCTAAAGAGAGAGTTCGTCAGGATCCTTGTGAGGATATTTCTCGTATCCAGAAAATCAGATCAAGGGAAGTAG  
CCTTGGAAGCACAACTTCACGTTACTTAAATGAATTTGAAGAACTTGCCATCTTAGGAAAAGGTGGATACGGAA  
GAGTATACAAGGTCAGGAATAAATTAGATGGTCAGTATTATGCAATAAAAAAATCCTGATTAAGGGTGCAACTA  
AAACAGTTTGCATGAAGGTCTACGGGAAGTGAAGGTGCTGGCAGGTCTTCAGCACCCCAATATTGTTGGCTATC  
ACACCGCGTGGATAGAACATGTTCAATGTGATTACGCCACGAGCAGACAGAGCTGCCATTGAGTTGCCATCTCTGG  
AAGTGCTCTCCGACCAGGAAGAGGACAGAGAGCAATGTGGTGTTAAAAATGATGAAAGTAGCAGCTCATCCATTA  
TCTTTGCTGAGCCCCACCCAGAAAAAGAAAAACGCTTTGGAGAATCTGACACTGAAAATCAGAATAACAAGTCGG  
TGAAGTACACCACCAATTTAGTCATAAGAGAATCTGGTGAACCTTGAGTCGACCCTGGAGCTCCAGGAAAATGGCT  
TGGCTGGTTTGTCTGCCAGTTCAATTGTGGAACAGCAGCTGCCACTCAGGCGTAATCCCACCTAGAGGAGAGTT  
TCACATCCACCGAAGAATCTTCCGAAGAAAATGTCAACTTTTTGGGTGACACAGAGGCACAGTACCACCTGATGC  
TGCACATCCAGATGCAGCTGTGTGAGCTCTCGCTGTGGGATTGGATAGTCGAGAGAAACAAGCGGGGCCGGGAGT  
ATGTGGACGAGTCTGCCTGTCTTATGTTATGGCCAATGTTGCAACAAAATTTTTCAAGAATTGGTAGAAGGTG  
TGTTTTACATACATAACATGGGAATTGTGCACCGAGATCTGAAGCCAAGAAATATTTTTCTTCATGGCCCTGATC  
AGCAAGTAAAAATAGGAGACTTTGGTCTGGCCTGCACAGACATCCTACAGAAGAACACAGACTGGACCAACAGAA  
ACGGGAAGAGAACACCAACACATACGTCCAGAGTGGGTACTTGTCTGTACGCTTCACCCGAACAGTTGGAAGGAT  
CTGAGTATGATGCCAAGTCAGATATGTACAGCTTGGGTGTGGTCTGCTAGAGCTCTTTCAGCCGTTTGAACAG  
AAATGGAGCGAGCAGAAGTTCTAACAGTTTAAAGAACTGGTCAGTTGCCGGAATCCCTCCGTAAGAGGTGTCCAG  
TGCAAGCCAAGTATATCCAGCACTTAACGAGAAGGAACCTCATCGCAGAGACCATCTGCCATTGAGCTGCTGCAGA  
GTGAACTTTTCCAAAATTCTGGAAATGTTAACCTCACCTACAGATGAAGATAATAGAGCAAGAAAAAGAAATTG  
CAGAACTAAAGAAGCAGCTAAACCTCCTTTCTCAAGACAAAGGGGTGAGGGATGACGGAAAGGATGGGGGCGTGG  
GATGAAGTGGACTTAACTTTTAAAGGTAGTTAACTGGAATGTAAATTTTTAATCTTTATTAGGGTATAGTTGGTA  
CAATGCTTCGTTGTATTTAGTAAGCCTTTACAAGACTTGTTAAAGATGTCAGAGTGCCCCAAGCTGCCGTTCTT  
CCCTTCCTGCCCCACAAGCTCCTTTTCTGAATTTCTACCTAAATATTAACCATATGCCTAGTCTCTGAAACTA  
AAAATTTGGACCTCATCCTCAATTATTTTCTCCTTTCAACTCTGTTGACCCTCTGTCTGGTCTTCTCTAGAAGG  
TTCTACCGCAGAAATTGATGTGTGCTCCCTGCCCTCGTCACTGCCCAAGCCCGGGCCTGCACATACTCACTGGAC  
TGTTCCAGTTTTGACAGCTGCCAGTCTTCTGCCCCCTTTCACACTGCAGCTGAAGTTCATTACCTGAAGGACGCC  
TCATCATTTTCATTCTTGGCTCCAAACCTTCTGCTGCCTCTAAGATAAAAGCTCAACTTCTTAACAGTGTACAGT  
GTGCAACTTCCAACCTTTTTATCTGTTCTCTCCACCTTCAGTTTAGCGTCATTCCAAAACCACACCCTTGCAAG  
CTTTGTACTCCGCACCCAGATGATCTCCAGGCAGCTCAGATCTCTTCTGCTTTGCCCTGCACTGTTCCCCG  
GTAATTCCTCCTTTATTGTAGCACTCAGCTCCCCAGCCAATCTGTACATCCCTCAGAGGCAGCGATCTGATGAAT  
TGGTTTTTGAATCCCAGAAAGGTCTGCCATGGAGTTGGCAGTCATCACGGTAGATGGCGTATGATTTTGCTGAA  
TTTTAAATAAAATGAAAACCATAAAAAAAAAAAAAAAAAA

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**FIGURE 2181**

MQGGNSGVRKREEEGDGAGAVAAPPAIDFPAEGPDPEYDESDVPAEIQVLKEPLQQPTFPFAVANQLLLVSLEH  
LSHVHEPNPLRSRQVFKLLCQTFIKMGLLSSTFCSEFSSRLHHNRAITHLMRSAKERVRQDPCEDISRIQKIR  
SREVALEAQTSTRYLNEFEELAILGKGGYGRVYKVRNKLDGQYYAIKKILIKGATKTVCMKVLREVKVLAGLQHPN  
IVGYHTAWIEHVHVIQPRADRAAIELPSLEVLSDQEEDREQCGVKNDSSSSSIIFAEPTPEKEKRFGESDTENQ  
NNKSVKYTTNLVIRESGELESTLELQENGLAGLSASSIVEQQLPLRRNSHLEESFTSTEESEENVNVLGQTEAQ  
YHMLMLHIQMQLCELSLWDWIVERNKRGREYVDESACPYVMANVATKIFQELVEGVFYIHNMGIVHRDLKPRNIFL  
HGPDQQVKIGDFGLACTDILQKNTDWTNRNGKRTPTHTSRVGTCLYASPEQLEGSEYDAKSDMYSLGVLLELFQ  
PFGTEMERAEVLTGLRTGQLPESLRKRCPVQAKYIQHLTRNSSQRPSAIQLLQSELFQNSGNVNLTLMKII EQ  
EKEIAELKKQLNLLSQDKGVRDDGKDGGVG

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**FIGURE 2182**

ATGCAGGCCATCAAGTGTGTGGTGGTGGGAGACGGAGCTGTAGGTAAACTTGCCTACTGATCAGTTACACAACC  
AATGCATTTCCCTGGAGAATATATCCCTACTGTCTTTGACAATTATTCTGCCAATGTTATGGTAGATGGAAAACCG  
GTGAATCTGGGCTTATGGGATACAGCTGGACAAGAAGATTATGACAGATTACGCCCCCTATCCTATCCGCAAACA  
GATGTGTTCTTAATTTGCTTTTCCCTTGTGAGTCCTGCATCATTGAAAATGTCCGTGCAAAGTGGTATCCTGAG  
GTGCGGCACCACTGTCCCAACACTCCCATCATCCTAGTGGGAATAAACTTGATCTTAGGGATGATAAAGACACG  
ATCGAGAACTGAAGGAGAAGAAGCTGACTCCCATCACCTATCCGCAGGGTCTAGCCATGGCTAAGGAGATTGGT  
GCTGTAAAATACCTGGAGTGCTCGGCGCTCACACAGCGAGGCCTCAAGACAGTGTTTGACGAAGCGATCCGAGCA  
GTCCCTGCCCCGCTCCCGTGAAGAAGAGGAAGAGAAAATGCCTGCTGTTGTAA

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**FIGURE 2183**

MQAIKCVVVG DGAVGKTCLLISYTTNAFPGEYIPTVFDNYSANVMVDGKPVNLGLWDTAGQEDYDRLRPLSYPQT  
DVFLICFSLVSPASFENVRAKWYPEVRHHCPNTPIILVGTKLDRDDKDTIEKLKEKKLTPITYPQGLAMAKEIG  
AVKYLECSALTQ RGLKTVFDEAIRAVLCPPPVKRRKRKCLLL



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**FIGURE 2184**

GCCGCCGCCGCCATGAACATTTTCCGGCTGACTGGGGACCTGTCCCACCTGGCGGCCATCGTCATCCTGCTGCTG  
AAGATCTGGAAGACGCGCTCCTGCGCCGGTATTTCTGGGAAAAGCCAGCTTCTGTTTGCCTGGTCTTCACAACT  
CGTTACCTGGATCTTTTTACTTCATTTATTTTCATTGTATAACACATCTATGAAGGTTATCTACCTTGCCTGCTCC  
TATGCCACAGTGATACCTGATCTACCTGAAATTTAAGGCAACCTACGATGGAAATCATGATACCTTCCGAGTGGAG  
TTTCTGGTGGTCCCTGTGGGAGGCCTCTCATTTTTAGTTAATCACGATTTCTCTCCTCTTGAGATCCTCTGGACC  
TTCTCCATCTACCTGGAGTCCGTGGCTATCCTTCCGCAGCTGTTTATGATCAGCAAGACTGGGGAGGCCGAGACC  
ATCACCACCCACTACCTGTTCTTCTGCGCCTCTATCGTGCTTTGTATCTTGTCAACTGGATCTGGCGCTTCTAC  
TTTGAGGGCTTCTTTGACCTCATTGCTGTGGTGGCCGGCGTAGTCCAGACCATCCTATACTGTGACTTCTTCTAC  
TTGTACATTACAAAAGTACTCAAGGGAAAAGAAGCTCAGTTTGCCAGCATAAGTGCCAAAAGACCATCACCAGCATC  
TGTCTTTCAGGGTGCTCGGACAGAATTCTTACCACAGCAAAGGCATAAGATGCTTGATACGGAAAAATCAGAACT  
TAACCTTTTTGTTGCAGATAGTCATCAGTGGCTCTGTAAAAACGCAGAGGAAAAGAGCCAGAAGGTTTCTGTTTA  
ATGCATCTTGCCTTATCTTTTTTTTATTACTGTGTACAAAGATTTTTTTTACACAAAGAACTTAATGCTGTATTAA  
TAAATTCAGTGTGTAGCTTCAATTGGGATAGTTCCAAAAGTGAAGATTTTGTGAGGAATAAGTGCAAATTTTTTT  
TTTATTTTAAAAAATTCTTTGAAACTCTTAAGTCTTTGTGCTGCAATGAAATTGTACTCCTTGACAGTTGATAG  
ATTATGTATTCTTCCATCCCTCAAACCTGCATTCCACTATATTTATTTTTTTGGCAAAGATGAGCTGTATTGTT  
TGAAATCTGAGACACTATGTTCAATTGG

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**FIGURE 2185**

MNIFRLTGDLSHLAAIVILLLLKIWKTRSCAGISGKSQLLFALVFTRYLDLFTSFISLYNTSMKVIYLACSYATV  
YLIYLFKATYDGNHDTFRVEFLVVPVGGLSFLVNHDFSPLEILWTFISIYLESVAILPQLFMISKTGEAETITTH  
YLFFLGlyRALYLVNWIWRFYFEGFFDLIAVVAGVVQTILYCDFFYLYITKVLKGKKLSLPA

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**FIGURE 2186**

ATGAGCGACATCCGCCACTCGCTGCTGCGCCGCGATGCGCTGAGCGCCGCCAAGGAGGTGTTGTACCACCTGGAC  
ATCTACTTCAGCAGCCAGCTGCAGAGCGCGCCGCTGCCCATCGTGGACAAGGGCCCCGTGGAGCTGCTGGAGGAG  
TTCGTGTTCCAGGTGCCCAAGGAGCGCAGCGCGCAGCCCAAGAGACTGAATTCCCTTCAGGAGCTTCAACTTCTT  
GAAATCATGTGCAATTATTTCCAGGAGCAAACCAAGGACTCTGTTTCGGCAGATTATTTTTTCATCCCTTTTCAGC  
CCTCAAGGGAACAAAGCCGATGACAGCCGGATGAGCTTGTGGGAAAACCTGGTCTCCATGGCGGTGGCTGTGTGT  
CGAATCCCGGTGTTGGAGTGTGCTGCCTCCTGGCTTCAGCGGACGCCCGTGGTTTACTGTGTGAGGTTAGCCAAG  
GCCCTTGTAGATGACTACTGCTGTTTGGTGCCGGGATCCATTTCAGACGCTGAAGCAGATATTCAGTGCCAGCCCCG  
AGATTCTGCTGCCAGTTCATCACCTCCGTTACCGCGCTCTATGACCTGTCATCAGATGACCTCATTCCACCTATG  
GACTTGCTTGAAATGATTGTACCTGGATTTTGGAGACCCAAGGTTGATTCTCATCACTTTTTTAAATACTCCG  
ATTGCGGCCAATCTGCCAATAGGATTCTTAGAGCTCACCCCGCTCGTTGGATTGATCCGCTGGTGGCTGAAGGCA  
CCCCTGGCTTATAAAAGGAAAAAGAAGCCCCCTTATCCAATGGCCATGTCAGCAACAAGGTACAAAGGACCCG  
GGCGTGGGATGGACAGAGACTCCCACCTCTGTACTCAAACTCCACCTCAGCGTCCTGCAAGTGCTCATGACG  
CTGCAGCTGCACCTGACCGAGAAGAATCTGTATGGGCGCCTGGGGCTGATCCTCTTCGACCACATGGTCCCGCTG  
GTAGAGGAGATCAACAGGTTGGCGGATGAACTGAACCCCTCAACGCCTCCCAGGAGATTGAGCTCTCGCTGGAC  
CGGCTGGCGCAGGCTCTGCAGGTGGCCATGGCCTCAGGAGCTCTGCTGTGCACGAGAGATGACCTGAGAACCCTG  
TGCTCCAGGCTGCCCCATAATAACCTCCTCCAGCTGGTGATCTCGGGTCCCGTGCAGCAGTCGCCTCACGCCCGG  
CTCCCCCGGGGTTCTACCCCCACATCCACACGCCCCCGCTGGGGCTACGGGGCTGTCCCGGCCACCCCGCCGCC  
CACCCCGCCCTGCCACGCACCCCGGCCACACCTTCATCTCCGGCGTGACCTTTCCTTCAGGCCCATCCGCTAG

GCTGGCCCGTGTGTGCCTTCTGCGCTCTCGCTGGACGAAGCCTTTCGAGATGGAAGGGGTGGCCGGACTCCCAGA  
AGAGAACCTCGGGGAAGGGGTGGGCGAGCCCCCTCCCCGCCGGCAGAACCGTCTTGGTGTACGGAGTCCAGGTGC  
TTCCACCCGGTTCGATTCTTTGACATGCAGATTGGATGGTGGAGGGAAGAGTCCAGCCTCTGCCGAGAGCCTGC  
TGCGTGCATTTTTAAAGATGCCGATCCTGGGAGCCTCTGTTCTCTGCGCATTTTCAGACACAGCCTGTGTGGCGA  
GGAGTGTGACGGCAGGAGCCACGGGTGCAAGCCCGTGTGTCTGGCCTCTTTCCTCGTGAAGACGATGTGTCCCCG  
CCAGAAAAAGTGGGCACCTTCTGCAGCCCCGTGAGCTGAGCCAGGCTGCGTAGTGACCACAAGCTTATGTGCAG  
CACTGCTCAGGGAGGCTGTGAGGAATTCCTTCACCTCGGAAAGGAACCTTCTCAGTTTTATTGGGGGTGTCTAAA  
TTTCCTTTCATATGTTCAAATAAATTTTTCTAAACAGT

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**FIGURE 2187**

MSDIRHSLRRDALSAAKEVLYHLDIYFSSQLQSAPLP IVDKGPVELLEEFVFQVPKERSAQPKRLNSLQELQLL  
EIMCNYFQEQTKDSVRQIIFSSLFSPQGNKADDSRMSLLGKLVSMAVAVCRIPVLECAASWLQRTPVVYCVRLAK  
ALVDDYCCLVPGSIQTLKQIFSASPRFCCQFITSVTALYDLSSDDLIPMDLLEMIVTWIFEDPRILILITFLNTP  
IAANLPIGFLELTPLVGLIRWCVKAPLAYKRKKKPPLSNGHVSNKVTKDPGVGMDRDSHLLYSKLHLSVLQVLMT  
LQLHLTEKNLYGRLGLILFDHMVPLVEEINRLADELNPLNASQEIELSLDRLAQALQVAMASGALLCTRDDLRTL  
CSRLPHNNLLQLVISGEVQQSPHAALPPGFYPHIHTPPLGYGAVPAHPAAHPALPTHPGHTFISGVTFPFRPIR

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**FIGURE 2188**

GGCACGAGGAAGCTACTCAGATAAGAGGCTCCAAGAGGACATTTTTGGATGTGAAAAACAATGAGAAGGAGGACA  
ACACACATTTACAATCGTCTTAATTTTGTACTCAGAAAAAGGATGTGAAGACAATGCACAGGGAATACAATAGTT  
TCAGATCTGTGTACAGTTTCCTTTTGCTTCATCTCCTGCAACAATGTAATGAAGACACCATGATATCATTAAACAT  
TTCACACAAAAAGGAAAAATGAGGCTGAAATGGTGTGGGCAAGGCCAGGAATCTGGAGCATCCCTAACCAAGCAGC  
AGAGCACCTGGGATAGAGAAAGTGCTCAAGAATGTTCACTTACTGATTACTACAATCAAAAAAGATACGACACT  
AATTTACCACATTCTTCTTACTTATTTTATGAGATACTATTCTTCCAAGGTGGAGAAAGTGGAGAAAGTAGAGTG  
ACGCAGCTAAGGGAGTAAATCGACCCTCAGCCAACAAGTGGCAAAAGCCTGAAGAAAGTGATCAAGATCACTGAT  
GACCCCGCGGCCCATCTCCAAGGGGGCGGGTATCACAACCCGACGCCACACCACGTATCATTCCGCAAACTCC  
CGCGCCTCCACGCAGAACTGGCAAGAGGGAAGGCGAGACAGCAGTGAACAGCTGGTACGCAGCACCCACAGCAC  
CGCGGCAGCAGCTAGTGCCGACTCCCGCCTAGCTCTTTTGACTCTGTTTCGCGGGAAGAATGGGGAAACAGTAAGG  
TTGCGGCGCCTCCCGCGAGACGAGGTACCTGAGGCTGGCCCCGAGTCCCCCGCCGACCAGCACCGGAGCTTCA  
CACCCCACTTCCGGGGTCAAGTCACCGCCGGGAATCCTGTGATCGCAGAAAGGTAGTCTCAGGTTCCGCCCCAT  
CCAAGTCCCGCCTCCACTGCCTCTCGCCCTGTATCTGTCAACTTCCGGGACGCCGCGCGTCACTAAGCAGCCAAT  
CTCCACTTCCGGACTCATCCAGCCCCCTTCTCCACCCCTTTCAGAGACAGCGGATTGCGATTTAGGTTTCCGCGC  
ATTTAATTGGCGAAGCTGGAGCGCTAGTCTTCGCTGATTGGTGCCGAGAAATCTGCCCCATAGACACCCGCGGGG  
CGCACAGTTTCAGTCGTCCGTGGGTTTCCCGCCAGCCGCGAGTCTTGGACCATAATCATGGTGGACATGATGGACT  
TGCCCAGGTCGCGCATCAACGCCGGCATGCTAGCTCAATTTCATCGACAAGCCTGTCTGCTTCGTAGGGAGGCTGG  
AAAAGATTTCATCCACCGGAAAAATGTTTATTCTTTTTCAGATGGAGAAGGAAAAAATGGAACCATCGAGTTGATGG  
AACCCCTTGATGAAGAAATCTCTGGAATTGTGGAAGTGGTTGGAAGAGTAACCGCCAAGGCCACCATCTTGTGTA  
CATCTTATGTCCAGTTTAAAGAAGATAGCCATCCTTTTGATCTTGGACTTTACAATGAAGCTGTGAAAATTATCC  
ATGACTTCCCTCAGTTTATCCTTTAGGGATTGTGCAACATGATTGATCTTGGATGGATTTTCATACGATTGTAAA  
TGAGCTATATTAAAGTCTATTAAAGGAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2189**

MVDMMDLPRSRINAGMLAQFIDKPVCFVGRLEKIHPTGKMFILSDGEGKNGTIELMEPLDEEISGIVEVVGRVTA  
KATILCTSYVQFKEDSHPFDLGLYNEAVKIIHDFPQFYPLGIVQHD

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**FIGURE 2190**

CAACCGAATGGTCAACCATTTTATTGCTGAGCTCAAGCGCAAGCATAAGAAGGACATCAGTGAGAGCAAGAGAGC  
TGTAAGATGCCTCCGTACTGCTTGTGAACATGCTAAGCGTACTCTCTCTTCCAGCACCCAAGTCAGTATTGAGAT  
CGATTCTCTCTATGTAGGAATTGACTTCTATACCTCCATTACCTGTGCCCAGTTTGAAGAATTGAATGCCTGGGG  
GATTCCCTGTTGGTGGAGCTCCTCCTTCTGGTGGTGCTTCCTTAGGGCCCACCATCGAAGAGGTTGATTAAGCCA  
ACCCAAGTATAGATGTAGCATTGTTCCACACATTTAAAACATTTGAAGGACCTAAATTTGTAGCAAATTCGTGG  
CAGTTTTTAAAAAGTTAAGCTGCTATAGTAAGTTACTGGGCATTCTCAATACTTGAATATGGAACATATGCACAGG  
GGAAGGAAATAACATTGCACTTTATAAACACTGTATTGTAAGTGGAAAATGCAATGTCTTAAATAAACTATTTA  
AAATTGGCACCAT

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**FIGURE 2191**

CAGCCATCCTGTCTGGAGACAAGTCTGAAAATGTTCAAGATTTGCTGCTCTTGGACGTCACTCCTCTTTCCCTTG  
GTATTGAAACTGCTAGTGGAGTCAATGACCATCCTCATCAACTGTAATACCACCATTCCCTACCAAGCAGACACAGA  
CCTTCATTACCTATTCTGACAACCAGCCTGGTGTGCTTATTTCAGGTTTATGAAGGTGAGCGTGCCATGTCCAAGG  
ATAACAACCTGCTTGGCAAGTTTGAATTACAGGGCATACTCCTGAACCCCAAGGTGTTCCCTCAGATTGAAGTCA  
CTTTTGACATTGATGCCAATGGTATCCTCAGTGTCTCTGCTGTGGACAAAAGTACAGGAAAAGAGAATAAAATTA  
CTATCACTAATAATAAGGGCCATTTGAGCAAGGAAGACATTGAACGTATGGTCCAGGAAGCTGAGAATTTAAAAAG  
CTGAAGATGAGAAGCAGAGGGACAAGGCGTCATCCAAGAATTCACCTGAGTCCTATGCATTCAACATGAAAGCAA  
CTGTCGAAGATGAGAACTTCAAGACAAGATTAATGATGAGGACAAACAGAAGATTCTGGACAGGTGTAATGAAA  
TTATCAACTGGCACAATAAGAATCGGACTGCCAAGAAGGAAGAATTTGAACATCAGCAGAAAGAGCTGGAGGAAC  
TTTGCAACCCAATCATCACCAAGCTGTACCAGAGTGCAGAAGGCATGCCAGGAAGAATGCCTGGGGGATTCCCTG  
TTGGTGGAGCTCCTCCTTCTGGTGGTGTCTTCCTTAGGGCCCACCATCGAAGAGGTTGATTAAGCCAACCCAAGTA  
TAGATGTAGCATTGTTCCACACATTTAAACATTTGAAGGACCTAAATTTGTAGCAAATTCCTGTGGCAGTTTTAA  
AAAGTTAAGCTGCTATAGTAAGTTACTGGGCATTCTCAATACTTGAATATGGAACATATGCACAGGGGAAGGAAA  
TAACATTGCACTTTATAAACACTGTATTGTAAGTGAAAAATGCAATGTCTTAAATAAACTATTTAAATTTGGCA  
CCAT



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**FIGURE 2192**

MTILINCNTTIPKQTQTFFITYSDNQPGVLIQVYEGERAMSKDNNLLGKFETGIPPEPQGVFPQIEVTFDIDANG  
ILSVSAVDKSTGKENKITITNNKGHLISKEDIERMVQEAEN

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**FIGURE 2193**

CCGTAGTGTCTCATTGCAGATAATTTTTAGCTTAGGGCCTGGTGGCTAGGTCGGTTCTCTCCTTTCCAGTCGGAG  
ACCTCTGCCGCAAACATGCTCCGCCAGATCATCGGTCAGGCCAAGAAGCATCCAAGCTTGATCCCCCTCTTTGTA  
TTTATTGGAAGCTGGAGCTACTGGAGCAACACTGTATCTCTTGGCTCTGGCATTGTTCAATCCAGATGTTTGGTGG  
GACAGAAATAACCCAGAGCCCTGGAACAACTGGGTCCCAATGATCAATACAAGTTCTACTCAGTGAATGTGGAT  
TACAGCAAGCTGAAGAAGGAACGTCCAGATTTCTTAAATGAAATGTTTCACTATAACGCTGCTTTAGAATGAAGGT  
CTTCCAGAAGCCACATCCGCACAATTTTCCACTTAACCAGGAAATATTTCTCCTCTAAATGCATGAAATCATGTT  
GGAGATCTCTATTGTAATCTCTATTGGAGATTACAATGATTAAATCAATAAATAACTGAAAAAAAAA

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**FIGURE 2194**

MLRQIIIGQAKKHPSLIPLFVFIGTGATGATLYLLRLALFNPVCWDRNNEPWNKLGPNQYKFYSVNVVDYSKLK  
KERPDF

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**FIGURE 2195**

GCCATCTTCCAGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCCGATATATGTTCTCTAGG  
CCTTTTAGAAAACATGGAGTTGTTCCTTTGGCCACATATATGCGAATCTATAAGAAAGGTGATATTGTAGACATC  
AAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAAACTGGAAGAGTCTACAATGTT  
ACCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATGTGCGT  
ATTGAGCACATTAAGCACTCTAAGAGCCGAGATAGCTTCCTGAAACGTGTGAAGGAAAATGATCAGAAAAAGAAA  
GAAGCCAAAGAGAAAGGTACCTGGGTTCAACTAAAGCGCCAGCCTGAGCTGCTGGAACCTATTCCCTATGAATTC  
ATGGCATAATAGGTGTT

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**FIGURE 2196**

MTNTKGKRRGTRYMFSPFRKHGVVPLATYMRIYKKGDIVDIKMGTVQKGMPHKCYHGKTGRVYNVTQHAVGIV  
V NKQVKGKILAKRINVRIEHIKHSKSRDSFLKRVKENDQKKKEAKEKGTWVQLKRQPELLEPIPYEFMA

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**FIGURE 2197**

GCTCGGGCGCGGGGCGTTCTTGGTGCGCCGGGCCGTGGTGAGTCCGGGCTCCCGTGGCCGCGTGCTGGGAGGAGA  
CTGGAGCCCGGTTAGGAAGAATGGAGTTGGCGACTCGCTACCAGATCCCTAAAGAAGTGGCTGACATCTTTAACG  
CCCCAGTGATGATGAAGAGTTTGTGGCTTCCGAGATGATGTTCCCATGGAAACCTCTCGTCAGAGGAGAGCT  
GCGATAGTTTTGACTCACTAGAGTCAGGGAAACAGCAGGATGTGCGCTTTCATTCCAAATACTTCACAGAAGAGC  
TAAGAAGAATTTTTATAGAGGACACTGACTCAGAGACTGAGGATTTTGCAGGATTTACGCAGAGTGATCTGAATG  
GAAAGACTAACCCAGAAGTAATGGTCGTGGAGTCAGATTTGAGTGATGATGGCAAAGCATCTTTGGTGAGCGAGG  
AAGAGGAAGATGAAGAAGAAGATAAGGCTACCCCTAGAAGAAGCAGGICTAGAAGAAGTAGTATTGGTCTTCGAG  
TAGCCTTTCAGTTCCCCACCAAGAAGCTGGCCAACAAACCAGATAAAAAACAGTTCTTCCGAGCAGTTGTTTTCTA  
GCGCACGCTTACAGAATGAGAAAAAACAATTCTTGAAAGAAAGAAAGACTGTAGACAGGTGATACAAAGGGAAG  
ATTCTACCTCTGAGTCTGAGGATGACTCTCGGGATGAGAGCCAGGAGAGTTCAGATGCTTTGCTGAAAAGGACCA  
TGAACATCAAGGAGAACAAAGCCATGCTTGCCAGTTATTGGCGGAATTGAACTCGATGCCAGATTTCTTCCAG  
TACGAACCCCAACCTCAGCTTCTAGGAAGAAGACAGTGAGGCGGGCCTTCTCGGAGGGACAGATCACGCGGCGTA  
TGAACCCCAACCCGGAGTGCGCGGCCCTCCTGAGAAGTTTGCTCTAGAGAACTTCACTGTCTCAGCCGCTAAATTTG  
CGGAAGAGTTTTACAGCTTCCGAAGAAGGAAGACAATTGGGGGGAAATGCCGGGAGTACAGACGACGTACCCGTA  
TATCTTCTTTTCGGCCAGTGGAGGATATCACCGAAGAGGACTTAGAAAATGTTGCCATAACTGTTTCGAGATAAAA  
TCTATGATAAAGTTCTGGGTAACACGTGCCATCAGTGTGACAAAAGACCATCGACACCAAGACAGTGTGTCGGA  
ACCAGGGTTGCTGTGGTGTGCGAGGACAGTTCTGTGGACCATGCCTGCGGAACCGCTATGGGGAGGATGTCAGAT  
CGGCATTGCTGGACCCGATTGGGTGTGTCCCCCTGTGCTGGGATCTGCAATTGCAGCTACTGTGCGGAAGCGTG  
ACGGCCGCTGTGCCACAGGAATCCTCATTCTGCGCAAGTTTTATGGTTATGACAATGTTAAGGAATATCTGG  
AGAGCTTACAAAAGGAGCTGGTAGAAGACAATTAAGAGGAAAACAAACAGAACCAGCCACCTCACCATAGAGTAC  
TCCAACAAGACATGCATACCATTGGTGCCTAAGATTTATTAAAACCTTGAAGTGAACAAAAGGGGACCATCAACATT  
GTAGACACTGGACACTGGAGGCCTTACAGAGTGCTAGCCTCTTCTTTCAGGACTCACCTGGGGCCTGCTGCTTTT  
ATATTTTGAAAGAGTTTAAGGGCTAATAATTTAATTTGTTGTTTGTAAAAATTAATCTCCGTTCTTTCCGGC  
TGCATTGCTTTTGCATGTTACATATGATGTACTTTTATGATGTACTTTTTTTTTTTTGGAGATGGAGTCTTGTTT  
TGTTGCCCAGGAGGGAGTGAGTGGTGCAACCTCGGCTCACTGCAACCTTTGCCTCCTAGGTTCAAGTGATTCTC  
CTACCTCCTGAGTAACTGGGATTACAGTCGTGTGCCACCACGCTCAGCCCTGAGTTAGTTTCTAGTATTTTTTTC  
TGACTTTCCTCTAAGGATAGCGTTGAAAAAAGAATGCACGTGTGAGTTACTAAAAAGTTAGAATAATGTGCATG  
GGAACAGTGCAGCAACATGCTAGAAAATCCTCACTGCACTCCAGCAGAGGCTAGAGGAATGCCAGTGTTACCTTA  
CGCTTCTAGAAGCAGAGCCACTCCAGCCAGAACCCATTTTGAGTCTTCTCTTCGCTCTTCAGCCTGAAGGTCCA  
GATGTAGCTGGGGCCTCTCAGTTTGGTTCTATACACAGGGCACTCGTAGGTCTGTTTGGTTTCTTGTCTGTCCAC  
GGGGGTGGCTTTTGCAAAGATGACCGGCATAGGGCATGCCAGCTCCTTGAGACGGGCTTCAACAATGGTTCTGCTG  
TTGGGTGTCCAGCGGGCGCCTATGGCAAAAACACAGCGGTTGCAATTGTTGTGGCAGCTTGCTACTAATGATAAT  
GATCAAGTAAGTTGTTTGATGCAATAAACATTCAACATTCTGGTTTTGTCAT

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**FIGURE 2198**

CTTTTTCGCAACGGGTTTGCCGCCAGAACACAGGTGTCGTGAAAACCTACCCCTAAAAGCCAAAATGGGAAAGGAA  
AAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTTCAGGCAAGTCCACCACTACTGGCCATCTGATCTAT  
AAATGCGGTGGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCTGCTGAGATGGGAAAGGGCTCCTTC  
AAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGGAAA  
TTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGGGACTTCATCAAAAACATGATTACA  
GGGACATCTCAGGCTGACTGTGCTGTCCTGATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCCAAG  
AATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAACATAATTGTCGGTGTAAACAAA  
ATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAATCAGCACTTACATTAAGA  
AAATTGGCTACAACCCCGACACAGTAGCATTGTTGTGCCAATTTCTGGTTGGAATGGTGACAACATGCTGGAGCCAA  
GTGCTAACATGCCTTGGTTCAAGGGATGGAAGTCACCCGTAAGGATGGCAATGCCAGTGGAACCACGCTGCTTG  
AGGCTCTGGACTGCATCCTACCACCAACTCATCCAACCTGACAAGCCCTTGCGCCTGCCTCTCCAGGATGTCTACA  
AAATTGGTGGTATTGGTACTGTTCTGTTGGCCGAGTGGAGACTGGTGTCTCAAACCCGGTATGGTGGTCACCT  
TTGCTCCAGTCAACGTTACAACGGAAGTAAAATCTGTGCAAATGCACCATGAAGCTTTGAGTGAAGCTCTTCCTG  
GGGACAATGTGGGCTTCAATGTCAAGAATGTGTCTGTCAAGGATGTTTCGTGCTGGCAACGTCGCTGGTGACAGCA  
AAAATGACCCACCAATGGAAGCAGCGGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAAGCA  
CCGGCTATGCCCCCTGTATTGGATTGCCACACGGCTCACATTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTG  
ATCGCCGTTCTGGTAAAAAGCTGGAAGATGGCCCTAAATTCTTGAAGTCTGGTGTGCTGCCATTGTTGATATGG  
TTCCTGGCAAGCCCATGTGTGTTGAGAGCTTCTCAGACTATCCACCTTTGGGTGCTTTGCTGTTTCGTGATATGA  
GACAGACAGTTGCGGTGGGTGTGTCATCAAAGCAGTGGACAAGAAGGCTGCTGGAGCTGGCAAGGTCACCAAGTCTG  
CCCAGAAAGCTCAGAAGGCTAAATGAATATTATCCCTAATACCTGCCACCCCACTCTTAATCAGTGGTGGAAAGAA  
TGGTCTCAGAACTGTTTGTTCATTGGCCATTTAAGTTTAGTAGTAAAAGACTGGTTAATGATAACAATGCATC  
GTAAACCTTCAGAAGGAAAGGAGAATGTTTTGTGGACCACTTTGGTTTTCTTTTTTTCGTGTGGCAGTTTTAAG  
TTATTAGTTTTTAAAATCAGTACTTTTTAATGGAAACAACCTGGACCAAAAATTTGTCACAGAATTTTGAGACCCA  
TT

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**FIGURE 2199**

MLEPSANMPWFKGWKPTRKDGNASGTTLLEALDCILPPTHPTDKPLRLPLQDVYKIGGIGTVPVGRVETGVLKPG  
MVTTFAPVNVVTEVKSVEMHHEALSEALPGDNVGFNVKNVSVKDVRRGNVAGDSKNDPPMEAAGFTAQVIILNHP  
GQISTGYAPVLDCHTAHIACKFAELKEKIDRRSGKKLEDGPKFLKSGDAAIVDMVPGKPMCVESFSDYPPLGRFA  
VRDMRQTVAVGVKAVDKKAAGAGKVTKSAQKAQKAK



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**FIGURE 2200**

GAAATTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGGGACTTCATCAAAAACATGAT  
TACAGGGACATCTCCAAGAATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAAC  
ATTGTCGGTGTTAACAAAATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAA  
TCAGCACTTACATTAAGAAAATTGGCTACAACCCCGACACAGTAGCATTGTGCCAATTTCTGGTTGGAATGGTG  
ACAACATGCTGGAGCCAAGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTAAGGATGGCAATGCCA  
GTGGAACACGCTGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCATCCAAGTACAAGCCCTTGCGCCTGC  
CTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTACTGTTCCCTGTTGGCCGAGTGGAGACTGGTGTTCTCAAAC  
CCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACGGGAAGTAAAATCTGTGAAATGCACCATGAAGCTT  
TGAGTGAAGCTCTTCCTGGGGACAATGTGGGCTTCAATGTCAAGAATGTGTCTGTCAAGGATGTTTCGTGCTGGCA  
ACGTCGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCGGGCTTCACTGCTCAGGTGATTATCCTGAACC  
ATCCAGGCCAAATAAGCACC GGCTATGCCCTGTATTGGATTGCCACACGGCTCACATTGCATGCAAGTTTGCTG  
AGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAATATGGTTCCCTGGCAAGCCCATGTGTGTTGAGAGCTTCTCAG  
ACTATCCACCTTTGGGTGCTTTGCTGTTTCGTGATATGAGACAGACAGTTGCGGTGGGTGTCATCAAAGCAGTGG  
ACAAGAAGGCTGCTGGAGCTGGCAAGGTCACCAAGTCTGCCAGAAAGCTCAGAAGGCTAAATGAATATTATCCC  
TAATACCTGCCACCCCACTCTTAATCAGTGGTGGAAGAA

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**FIGURE 2201**

MVTTCSQVLTCLGTMLLEALDCILPPTRPTDKPLHLPLQDVYKIGGIGSVPVGRVETGVLKPGMVVTFAPVNV  
TEVKSVEMHHEALSEALPGDNVGFNVKNVSVKDVRHGNVAGDSKNDPPMEAAGFTAQVIILNHPGQISTGYAPVL  
DCHTAHIACKFAELKEKIDHRSGNMVPGKPMCVESFSDYPSLGCFVRDMRQIVTVGVKAVDKKTAGAGKVTKS  
AQKAQKAK

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**FIGURE 2202**

TATAAATGCGGTGGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCTGCTGAGATGGGAAAGGGCTCC  
TTCAAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGG  
AAATTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGGGACTTCATCAAAAACATGATT  
ACAGGGACATCTCAGGCTGACTGTGCTGTCCTGATTGTTGCTGCTGGTGTTGGTGAATTTGAAGCTGGTATCTCC  
AAGAATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAACATAATTGTCGGTGTTAAC  
AAAATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAATCAGCACTTACATTA  
AGAAAATTGGCTACAACCCCGACACAGTAGCATTGTGCCAATTTCTGGTTGGAATGGTGACAACATGCTGGAGC  
CAAGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTAAGGATGGCAATGCCAGTGGAACACGCTGC  
TTGAGGGCTCCAGTCAACGTTACAACGGAAGTAAAATCTGTGCGAAATGCACCATGAAGCTTTGAGTGAAGCTCTT  
CCTGGGGACAATGTGGGCTTCAATGTCAAGAATGTGTCTGTCAAGGATGTTTCGTCGTGGCAACGTCGCTGGTGAC  
AGCAAAAATGACCCACCAATGGAAGCAGCGGGCTTCACTGCTCAGG

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**FIGURE 2203**

GTGAAACTACCCCTAAAAGCCAAAATGGGAAAGGAAAAGACTCATATCAACATTGTCGTCATTGGACACGTAGA  
TTCAGGCAAGTCCACCACTACTGGCCATCTGATCTATAAATGCGGTGGCATCGACAAAAGAACCATTGAAAAATT  
TGAGAAGGAGGCTGCTGAGATGGGAAAGGGCTCCTTCAAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGCG  
TGAACGTGGTATCACCATTGATATCTCCTTGTGGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGT  
GTGAA

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**FIGURE 2204**

GAAAACTACCCCTAAAAGCCAAAATGGGAAAGGAAAAGACTCATATCAACATTGTCGTCATTGGACACGTAGATT  
CAGGCAAGTCCACCACTACTGGCCATCTGATCTATAAATGCGGTGGCATCGACAAAAGAACCATTGAAAAATTTG  
AGAAGGAGGCTGCTGAGATGGGAAAGGGCTCCTTCAAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGCGTG  
AACGTGGTATCACCATTGATATCTCCTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCC  
GGGACATCTCAGGCTGACTGTGCTGTCCTGATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCCAAG  
AATGGGCAGACCCGAGAGCATGCCCTTCTGG

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**FIGURE 2205**

CTCTCTCCGGTCCATGCCTCCAAGATGACAAAGAAAAGAAGGAACAACGTTTCGTGCCAAAAAGGGCCGCGGCCAC  
GTGCAGCCTATTTCGCTGCACTAACTGTGCCCCGATGCGTGCCCAAGGACAACGCCATTAAGAAATTCGTCATTCTGA  
AACATAGTGGAGGCTGCAGCAGTCAGGGACATTTCTGAAGCGAGCGTCTTCGATGCCTATGTGCTTCCCAAGCTG  
TGTGTGAAGCTACATTACTGTGTGAGTTGTGTAAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCGC  
AAGGACCGAACACCCCCACCCCGATTTAGACCTGCGGGTGCTGCCGCACGTCCCCCACCAGCCCATGTAAGGA  
GCTGAGTTCTTAAAGACTGAAGACAGACTATTCTCTGGAGAAAAATAAAATGGACATTGTACTTAAAAAAAACA  
AAAAAAAAAAAAAAAAAAAA

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**FIGURE 2206**

CCGTGATGTGGCGCCTGCACAXTCCTTTCCCTTTTCGGATTCCCGACGCTGTGGTTGCTGTAAGGGGTCCTCCCTG  
CGCCACACGGCCGTCGCCATGGTGAAGCTGAGCAAAGAGGCCAAGCAGAGACTACAGCAGCTCTTCAAGGGGAGC  
CAGTTTGCCATTGCTGGGGCTTTATCCCTCTTGTGATTTACCTGGGATTTAAGAGGGGTGCAGATCCCGGAATG  
CCTGAACCAACTGTTTTGAGCCTACTTTGGGGATTAAAGGATTATTTGGTCTTCTGGATTGGAGGCAATCAGCGG  
ACAGCATGGAAGATGTGTGCTCTGGCTCGGATAAGAGATGGGACATCATTCACTAGTTGGATGGCACAAGG  
CTCTTCACAGACGCATCTGTAGCAGAGTGGAAGTGTACTAACTTATGATAGAATGTATCAGAATAAATGTTTTT  
AACAGTGTA

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**FIGURE 2207**

MVKLSKEAKQRLQQLFKGSQFAIRWGFIPLVIIYLGFKRGADPGMPEPTVLSLLWG



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**FIGURE 2208A**

GGACGTCCGGCTTCGGAGCGGGAGTGTTCGTTGTGCCAGCGACTAAAAAGAGAATTAAATATCGGGTGATGTTGAG  
AAAGGCAAGAAGATTTTTATTATGAAGTGTTCACAGTCCACACCGTTGAAAAGGGAGGCAAGCACAAGACTGGG  
CCAAATCTCCATGGTCTCTTTGGGCGGAAGACAGGTGAGGCCCTGGATACTCTTACACAGCCGCCAATAAGAAC  
AAAGGCATCATCTGGGGAGAGGATACACTGATGGAGTATTTGGAGAATCCCAAGAAGTACATCCCTGGAACAAAA  
ATGATCTTTGTGCGGCATTAAGAAGAAGGAAGAAAGGGCAGACTTAATAGCTTATCTCAAAAAAGCTACTAATGAG  
TAAATAATTGGCCACTGCCTTATTTATTACAAAACAGAAATGTCTCATGACTTTTTTATGTGTACCATCCTTTAAT  
AGATCTCATACACCAGAATTCAGATCATGAATGACTGACAGAATATTTTGTGGGCAGTCCGTGATTTAAACTAA  
GACTGGCTTGTGGTTAAATGAATATGTTTCAGTTTTTTGAATTTTAAATAGTAAGTCCAAATTCAGTAAATGGTATCAC  
TGTTTACCCCTTTTAAAGATATGATTAGACTTCGTTAGTAATGTTCAACTTTTCACAAAGATGGTGAGTGCCATC  
TTAAACTTACTGGAGATTGGTTTTATATTTAGATTTATATACTGGTTATGTGAATATATTTAAATACTGGGGA  
AATTGCTTCACTGTCTTAGAACCAAGCAAGATTACCTGTGTTTTGTGTTTCATGTTTCATTTGCCTCTTAAAGGCA  
AGGGTTGAAGATAAATAAGGTTGCAATGTCTATAGTTTTGGCCTTAAGTATGCCAATCTAATTATAATTCCTGT  
ATTTAAAAATGGTTTTCTTTACTTATTGAAAGGCATTTTAGTGTGGTTTTATGTGTAATATTAAGATTATTCAACA  
CCTCTCACATCTTACAGATCTATAAGGTCACATGCTTTTAAATAGTAGCAAGTTAACTTCACTCTTGAATTCT  
TTACAATCTAAGTCAAACCTAAGTTATAATTTAGGATTGTCTTTAAACAGCCATTCAGAAACAAAAGTGTAGAACT  
GTGTATTTGATTGGGAATGGTGCTTTTGCCAACCTTAAAGGATTAAAGTAACGGAGATATACACAAATTTTAAAA  
TTATGTGTGATCACAAGACTAAAGATAATTAAGAAAGAAACCACAGATCATGACTTTTTGACTGTGCTTGATTTT  
ATGACTGATGCACAAATTTAATGATTAAGAAAGTGCAGGAGCCCTAAATGTCAGTGCAGCAGCCCTAAATGTCAG  
TGCAGCAGTGTTAACCAGTCATGGTGCTAGATTGTTTACTTGGTTTTCTAGGACTGCCTCACTAGATAAACACT  
TCACTAATTGACTCTTAGTTTTCTTGTCTCAGATTGAGAACTGCAGCATTTATGCCAGACATGGACAGAGGAATGC  
CTGTGGTCATAGTTTTGTGATGTGTAACAGTGTATAATTACATACTGAATTATTTTCATGCATAGTCTGTGCCATA  
CACATTTAGAGTAGTCTTGGAGATTTTATGGAGATGGTGAGCACAAGGTAAGTCATAAAGAATAATGAGAAAAT  
AAATCTATGCTGGTGCAGCTGAGAACTGTATCTTTGTGGGACAGTGAGAAGACTGAGAAGATGTGAATCCATGGT  
CTCAAAGGTGATAGGGACGATTAGATAGGTGTTTTAAGGCCTGAAAGCAATTTATAACATATGAGTCTTATTTTT  
ATTTATAGAAATGTGGAAAGCTTGCTGTAATTCATATTTGAAGTCCTAGTCTGAGTTCTGGTGGGGAATTTAAAA  
ATGCATCCTGGAAATCCTTTAAAGATTTTCAAGCTTTGAAAGGCCTTGAGCAGAGGACTTGGTGACTGTATAAAG  
TTAGTGGTATTCAGGGACAGTGTAGCAAGTAGCTTACAAGGGGACAATTCCTGGACTAATGAGAAAGACCTGAAGT  
GAAGGCTAGAGAGTTGATTTTTTTTTTTTTTGGCATCCTGGAAATGATACAGGAAACATATTAAGATAGATACAG  
AAATGTGTTCAACCTTCCATCTTGGCTAGTTGTGGCGTTTTAGTTTTTTTTTGGACATGGTTCACGCTGTGTGCG  
CAAGGCTGGAGTGCAGTGGTGCATCTCGGCTGGCTGCAGCCTCTATTTCCAGGCTCAAGCGATTCTCTCACTT  
CAGCTTCCCAAGTAGCTGGGACTGCGGGTGTTCGCCACCATGCCAGCTAATTTTTTTGTAGAGATGGAGTTTTG  
CCATGTGGTCCCAGGCTGGTCTCAAACCTCCTGAGCTCAAGCAATCCGTCCACTTGCCTTGGCTCCCCAAGTGCT  
GGGATTGCAGGCGTGAGCCACCAGGCCCTGCCTGGTTTTTCAAATTCAGAAATCTTATTATTTAACCAGAAGTAA  
TCAGCCCAGTAGTAACTTAGGTTTAAATTTTTTTTTCAGGTTTAAATTTTTTCTCATTATTTTTTCTGAGACGGAG  
TTTTCGCCCTTTTTCGCCAGGCTGAGTACAGTGGTGCAATCTCACTGCAACCTCCGCCTTCAGTTGCAAGTGATT  
CTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTGCAGGCACCCGCCACACGCTGGCTAATTTTTGTATTTTTTAG  
TGGAGATGGTGTTCACCATGTTGGCCAGACTGGTCTTGGACTCCTGACCTCGTGATCCACCCACCTTGGCCTCC  
CAAAGTTCTAGGATTACAGGTGTGAGCCACCAGTCCGGCCAATTTTTCTCATTCTATGCCTCCTATATTAAGG  
TCTGTGTTGGCACAGATGAGTAACTGCCATGTTCTAGGTGAGTTATACCCAAGCACTTCTGGTGGTTTTAAATGT  
GATTCTGTAACCTTTTTTATTTTTTATTTTTTGTAGATAATTTCACTCTTGTGTTGCCAGGCTGGAGTGCAATGGCGT  
GATCGCTGCTCACCGCAACCTCCGCCTTCCAGGTTCAAGCGATTCTCCTGACTCAGCCTCTCAAGTAGCTGGGAT  
TACAAGCATGCGCCACCATGCCAGCTTATTTTGTGTTTTTAGTAGAGACAGGGTTTTCTCCATGCTGGACAGGCT  
GGTCTTGAACCTCCGACGTCGGGTGATCTGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCAC  
CACGCCTGGCCAATTATGTAATTTTTTAAAGGACATTTCTATCAGGGATATATACCTTCAGAAATAAGGAAAT  
AGGGGAAAAAAGAGCACTATAAACCACATGTTTTCAATTTCTAGTGCTTCGCTGTAAGTGGCTAGGTTGGTAGAA  
TCAAAAACAAGGGCCAGATGTATTTAAGGGGTATTAGATGCCACCTACATGCTTATTTTGTCTAGAACAGTGCT  
GTCTAATAGAATTTCTGTGACGATGGATATTTTGTAGACTTTTGTGCTGCCAGTGTGGTAGCCACTAACCCACATG  
TGGCTGTAAAGCCCTTGAAATATAGCTAGTGTGACTAGAAAGTATTTTATTTTAAATTTACATAGGCACAAGTGG

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**FIGURE 2208B**

CTAGTGGCTACTGTATTGACATTCTGGGTCTAGGACTAGAACCAGTGGTCTGTAAACAAAAGTACTTTCTCTTTAC  
TCTATTAAATCTAGAATTAGCCGGGCATGGTCGCTCATGCCTGTGGTCCCAGCACTTTGGGAGGCCAAGGCAGGC  
AGATCACTTGAGGTCGGGCGTTTGAGACCAGCCTGGTCAACATGGCGAAACCCTGTCTCTACAAAAACATAAAA  
GTTAGCCAGGTGTGGTGGTGGGCACCTGTAGTCTCAGCTACTTGGGAGGCTGAGGCACAAGAATCACTTGAAGT  
GGGAGGTGGAGGTTGCAGTGAGCCAGGATTGTGCCACTGCACTCAAGCCTGGGTGACGAGTGAAACTGTCTCCAA  
AAAAAAAAAAAAAAAA

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**FIGURE 2209**

MGDVEKGKKIFIMKCSQCHTVEKGGKHKTGPNLHGLFGRKTGQAPGYSYTAANKNKGIIWGEDTLMEYLENPKKY  
IPGTMIFVGIKKKEERADLIAYLKATNE

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**FIGURE 2210**

AGTAGCAGCAGCGCCGGGTCCCGTGCGGAGGTGCTCCTCGCAGAGTTGTTTCTCGAGCAGCGGCAGTTCTCACTA  
CAGCGCCAGGACGAGTCCGGTTCGTGTTTCGTCCGCGGAGATCTCTCTCATCTCGCTCGGCTGCGGGAAATCGGGC  
TGAAGCGACTGAGTCCGCGCATGGAGAGAGAAAAGGAACAGTTCCGTAAGCTCTTTATTGGTGGCTTAAGCTTTGA  
AACCACAGAAGAAAGTTTGAGGAATACTACGAACAATGGGGAAAGCTTACAGACTGTGTGGTAATGAGGGATCC  
TGCAAGCAAAAGATCAAGAGGATTTGGTTTTGTAACTTTTTCATCCATGGCTGAGGTTGATGCTGCCATGGCTGC  
AAGACCTCATTCAATTGATGGGAGAGTAGTTGAGCCAAAACGTGCTGTAGCAAGAGAGGAATCTGGAAAACCAGG  
GGCTCATGTAACGTGTGAAGAAGCTGTTTGTGGCGGAATTAAGAAGATACTGAGGAACATCACCTTAGAGATTA  
CTTTGAGGAATATGAAAAAATTGATAACATTGAGATAATTACTGATAGGCAGTCTGGAAAGAAAAGAGGCTTTGG  
CTTTGTTACTTTTGATGACCATGATCCTGTGGATAAAATCGTATTGCAGAAATACCATAACCATCAATGGTCATAA  
TGCAGAAGTAAGAAAGGCTTTGTCTAGACAAGAAATGCAGGAAGTTCAGAGTTCTAGGAGTGGAAGAGGAGGCAA  
CTTTGGCTTTGGGGATTACGTTGGTGGCGGTGGAAATTCGGACCAGGACCAGGAAGTAACCTTTAGAGGAGGATC  
TGATGGATATGGCAGTGGACGTGGATTTGGGGATGGCTATAATGGGTATGGAGGAGGACCTGGAGGTGGCAATTT  
TGGAGGTAGCCCCGGTTATGGAGGAGGAAGAGGAGGATATGGTGGTGGAGGACCTGGATATGGCAACCAGGGTGG  
GGGCTACGGAGGTGGTTATGACAACTATGGAGGAGGAAATTATGGAAGTGGAAATTACAATGATTTTGGAATTA  
TAACCAGCAACCTTCTAACTACGGTCCAATGAAGAGTGGAACTTTGGTGGTAGCAGGAACATGGGGGGACCATA  
TGGTGGAGGAACTATGGTCCAGGAGGCAGTGGAGGAAGTGGGGTTATGGTGGGAGGAGCCGATAC**TGAG**CTTC  
TTCTATTTGCCATGGGCTTCACTGTATAAATAGGAGAGGATGAGAGCCCAGAGGTAACAGAACAGCTTCAGGTT  
ATCGAAATAACAATGTTAAGGAACTCTTATCTCAGTCATGCATAAATATGCAGTGATATGGCAGAAGACACCAG  
AGCAGATGCAGAGAGCCATTTTGTGAATGGATTGGATTATTTAATAACATTACCTTACTGTGGAGGAAGGATTGT  
AAAAAAAAATGCCTTTGAGACAGTTTCTTAGCTTTTTAATTGTTGTTTCTTTCTAGTGGTCTTTGTAAGAGTGTA  
GAAGCATTCTTCTTTGATAATGTTAAATTTGTAAGTTTCAGGTGACATGTGAAACCTTTTTTAAGATTTTCTC  
AAAGTTTTGAAAAGCTATTAGCCAGGATCATGGTGTAAATAAGACATAACGTTTTTCCTTTAAAAAAATTTAAGTG  
CGTGTGTAGAGTTAAGAAGCTGTTGTACATTTATGATTTAATAAAATAATTCTAAAGGAAAAAA

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**FIGURE 2211**

MEREKEQFRKLF IGGLSFETTEESLRNYEQWGKLTDCVVMRDPASKRSRGFGFVTFSSMAEVDAAAMAARPHSID  
GRVVEPKRAVAREESGKPGAHVTVKKLFVGGIKEDTEEHHLRDYFEEYGKIDTIEIITDRQSGKKRGFGFVTFDD  
HDPVDKIVLQKYHTINGHNAEVRKALSRQEMQEVQSSRSRGGNFGFGDSRGGGGNFGPGPGSNFRGGSDGYGSG  
RGFGDGYNGYGGGPGGGNFGGSPGYGGGRGGYGGGGPGYGNQGGGYGGGYDNYGGGNYGSGNYNDFGNYNQQPSN  
YGPMKSGNFGGSRNMGGPYGGGNYGPGSGGSGGGYGGRSRY

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**FIGURE 2212**

AGTAGCAGCAGCGCCGGGTCCCGTGCGGAGGTGCTCCTCGCAGAGTTGTTTCTCGAGCAGCGGCAGTTCTCACTA  
CAGCGCCAGGACGAGTCCGGTTCGTGTTTCGTCCGCGGAGATCTCTCTCATCTCGCTCGGCTGCGGGAAATCGGGC  
TGAAGCGACTGAGTCCGCGATGGAGAAAACCTTTAGAAACTGTTCTTTGGAGAGGAAAAAGAGAGAAAAGGAACA  
GTTCCGTAAGCTCTTTATTGGTGGCTTAAGCTTTGAAACCACAGAAGAAAGTTTGAGGAACTACTACGAACAATG  
GGGAAAGCTTACAGACTGTGTGGTAATGAGGGATCCTGCAAGCAAAAGATCAAGAGGATTTGGTTTTGTAACCTT  
TTCATCCATGGCTGAGGTTGATGCTGCCATGGCTGCAAGACCTCATTCAATTGATGGGAGAGTAGTTGAGCCAAA  
ACGTGCTGTAGCAAGAGAGGAATCTGGAAAACCAGGGGCTCATGTAAGTGTGAAGAAGCTGTTTGTGGCGGAAT  
TAAAGAAGATACTGAGGAACATCACCTTAGAGATTACTTTGAGGAATATGGAAAAATTGATACCATTGAGATAAT  
TACTGATAGGCAGTCTGGAAAGAAAAGAGGCTTTGGCTTTGTACTTTTGATGACCATGATCCTGTGGATAAAAT  
CGTATTGCAGAAATACCATAACCATCAATGGTCATAATGCAGAAAGTAAGAAAGGCTTTGTCTAGACAAGAAATGCA  
GGAAGTTCAGAGTTCTAGGAGTGGAAAGAGGAGGCAACTTTGGCTTTGGGGATTACAGTGGTGGCGGTGGAAATTT  
CGGACCAGGACCAGGAAGTAACCTTTAGAGGAGGATCTGATGGATATGGCAGTGGACGTGGATTTGGGGATGGCTA  
TAATGGGTATGGAGGAGGACCTGGAGGTGGCAATTTGGAGGTAGCCCCGGTTATGGAGGAGGAAGAGGAGGATA  
TGGTGGTGGAGGACCTGGATATGGCAACCAGGGTGGGGGCTACGGAGGTGGTTATGACAACCTATGGAGGAGGAAA  
TTATGGAAGTGGAATTACAATGATTTTGGAAATTATAACCAGCAACCTTCTAACTACGGTCCAATGAAGAGTGG  
AACTTTGGTGGTAGCAGGAACATGGGGGGACCATATGGTGGAGGAACTATGGTCCAGGAGGCAGTGGAGGAAG  
TGGGGGTTATGGTGGGAGGAGCCGATACTGAGCTTCTTCTATTTGCCATGGGCTTCACTGTATAAATAGGAGAG  
GATGAGAGCCCAGAGGTAACAGAACAGCTTCAGGTTATCGAAATAACAATGTTAAGGAAACTCTTATCTCAGTCA  
TGCATAAATATGCAGTGATATGGCAGAAGACACCAGAGCAGATGCAGAGAGCCATTTTGTGAATGGATTGGATTA  
TTTAATAACATTACCTTACTGTGGAGGAAGGATTGTAAAAAAAATGCCTTTGAGACAGTTTCTTAGCTTTTTAA  
TTGTTGTTTCTTTCTAGTGGTCTTTGTAAAGAGTGTAGAAGCATTCTTCTTTGATAATGTTAAATTTGTAAGTTT  
CAGGTGACATGTGAAACCTTTTTTAAGATTTTCTCAAAGTTTGGAAAAGCTATTAGCCAGGATCATGGTGTAAAT  
AAGACATAACGTTTTTCTTTAAAAAATTTAAGTCCGTGTGTAGAGTTAAGAAGCTGTTGTACATTTATGATTT  
AATAAAATAATTCTAAAGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2213**

MEKTLETVPLERKKREKEQFRKLFIGGLSFETTESLRNYEQWGKLTDVVMRDPASKRSRGFGFVTFSSMAEV  
DAAMAARPHSIDGRVVEPKRAVAREESGKPGAHVTVKKLFVGGIKEDTEHHLRDYFEEYGKIDTIEIITDRQSG  
KKRGFGFVTFDDHDPVDKIVLQKYHTINGHNAEVRKALSROEMQEVQSSRSRGGNFGFGDSRGGGNFGPGPGS  
NFRGGSDGYGSGRGFGDGYNGYGGGPGGGNFGGSPGYGGGRGGYGGGGPGYGNQGGGYGGGYDNYGGGNYGSGNY  
NDFGNYNQQPSNYGPMKSGNFGGSRNMGGPYGGGNYGPGGSGGSGGYGGRSRY

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**FIGURE 2214**

CGCTGAGGAGACTCCGGTCACTGTCCTCGCCCCGCCTCCCCCTTCCCTCCCCTTGGGGACCACCGGGCGCCACGC  
CGCGAACGTAATAGCTCTTCAAGTCTGCAATAAAAAATGGCCTCCAACAAAACCTACATTGCAAAAAATGGGAAAA  
AAACAGAATGGAAAGAGTAAAAAGTTGAAGAGGCAGAGCCTGAAGAATTGTCTGTGGAAAAAGTACTAGATCGA  
CGTGTAGTGAATGGGAAAGTGGAATATTTCTTGAAGTGAAGGGATTTACAGATGCTGACAATACTTGGGAACCT  
GAAGAAAAATTTAGATTGTCCAGAATTGATTGAAGCGTTTCTTAACTCTCAGAAAGCTGGCAAAGAAAAAGATGGT  
ACAAAAAGAAAATCTTTATCTGACAGTGAATCTGATGACAGCAAATCAAAGAAGAAAAGAGATGCTGCTGACAAA  
CCAAGAGGATTTGCCAGAGGTCTTGATCCTGAAAGAATAATTGGTGCCACAGACAGCAGTGGAGAATTGATGTTT  
CTCATGAAATGGAAAGATTGAGATGAGGCAGACTTGGTGCTGGCGAAAAGAGGCAAATATGAAGTGTCTCTCAAATT  
GTAATTGCTTTTTATGAAGAGAGACTAACTTGGCATTCTTGTCCAGAAGATGAAGCTCAATAATTGTTTCACATTG  
TTCTTTTATATATATTTATATATATATATAAAAAATTGGGTCTTAGATTTTGATTTACTAGTGTGACAAAATAACT  
ACATCCTAATGAAAATCAAGTTTGATATGTTTGTGTTTGAAGTAGCGTTGGAAGAGTTGTTGGGGGTTTTTTTGCA  
TCCATAGCACTGGTTACTTTGAACAAATAAATAAAAGCTTTCTGTAGTTGCTTCCTTTATCAGAAAAGAACATTT  
GATACCATGGTATATCATTTTCTCTTCAATTAAGAAGCAGCTTTTCTAAATGTTGGGGGAAATGTCCATAGTCATT  
ACTCAGTCAAAAACCTTGTGTTCTCATGAGCCTAAGGACCATTCTAGATTTATTACGTGTTTTTTGTGTGTGTGTGT  
GTGTGTGTGTGTGTGTGTATCCATAAAATGCATATGTAAATTTTTTTTTGTTTTTAAGCATTACCCAAACAAAA  
AAATCACAGGTAAACCCATGTTTCTGAGATGCCATTATTCCAAGCAAAATAAGAGATAATCCCTTCAAGTTAAAT  
TGAAAATTTTCTGAAACCATAACATTTCAAGTGAAATAAGTAATTCTAGATAGGACAATTTAAATTGGATAATTT  
TAAAGTGTCTATAATTGCAGTGGTTTATTTGCAAATTCCTAAAAGGAAAAATTTTATCACTGCCATCACAGCAG  
GTTTCTCATCCAGATGAGGAACTAGACAAATGCTAGTGTGTTTTAACTAGCTAAACAAAACCTAAGTTAAATGA  
ACATTTAAAAGTTTCCCTAGCGGGCCATTCTTAGCAAAATGTTGGAATCCCTGTTGCTACATTGACTAAAAGGT  
CATGATGAATGGAATATGTAAGACTTGGCTCATAGAAACCTAATCAGATGGTTAGAGGTGTTGGCAGTTTAGGAC  
CTGCTGTCATAAATGTGTGAACAACCTTTTGTAACCTAACCTATTGACCTGCATGTTTTTTCTTTACCCCAATTC  
ATTACATGGAGGCTCAATCTTGAGTTTGCTTTACTGGTTCAGCAAAAGCCAGGAAGAACAACCTTTGTAGTAATCA  
AAATGTTATCCAACGTGTATATTGTTTACTTTATTGTAAATACTGGTGAACAGTGGTTAATAAATAGTTTTATATT  
CCTTTATGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



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**FIGURE 2215**

MASNKTTLQKMGGKQNGKSKKVVEEAEPPEFVVEKVLDRRVNGKVEYFLKWKGF  
TDADNTWEPEENLDCPELIEA  
FLNSQKAGKEKDGTKRKSLSDSESDSKSKKKRDAADKPRGFARGLDPERIIGATDSSGELMFLMKWKDSDEADL  
VLAKEANMKCPQIVIAFYERLTWHSCPEDEAQ

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**FIGURE 2216**

TCCCCCGGCGGCCCCGCGCGCAGCTCCCGGCTCCCTCCCCCTTCGGATGTGGCTTGAGCTGTAGGCGCGGAGGG  
CCGGAGACGCTGCAGACCCGCGACCCGGAGCAGCTCGGAGGCGGTGAATAATAGCTCTTCAAGTCTGCAATAAAA  
AATGGCCTCCAACAAACTACATTGCAAAAAATGGGAAAAAACAGAATGGAAAGAGTAAAAAGTTGAAGAGGC  
AGAGCCTGAAGAATTTGTCGTGGAAAAAGTACTAGATCGACGTGTAGTGAATGGGAAAGTGAATATTTCTGAA  
GTGGAAGGGATTTACAGATGCTGACAATACTTGGGAACCTGAAGAAAATTTAGATTGTCCAGAATTGATTGAAGC  
GTTTCTTAAGTCTCAGAAAGCTGGCAAAGAAAAAGATGGTACAAAAAGAAAATCTTTATCTGACAGTGAATCTGA  
TGACAGCAAATCAAAGAAGAAAAGAGATGCTGCTGACAAACCAAGAGGATTTGCCAGAGGTCTTGATCCTGAAAG  
AATAATTGGTGGCCACAGACAGCAGTGGAGAATTGATGTTTCTCATGAAATGGAAAGATTGAGATGAGGCAGACTT  
GGTGTGGCGAAAGAGGCAAATATGAAGTGTCTCAAATTGTAATTGCTTTTTATGAAGAGAGACTAAGTGGCA  
TTCTTGTCCAGAAGATGAAGCTCAATTAATTGTTTACATTGTTCTTTTATATATATTTATATATATATATAAAAT  
TGGGTCTTAGATTTTGATTTACTAGTGTGACAAAATAACTACATCCTAATGAAAATCAAGTTTGATATGTTTGT  
TTGAAAGTAGCGTTGGAAGAGTTGTTGGGGGTTTTTGCATCCATAGCACTGGTTACTTTGAACAAATAAATAAA  
AGCTTTCTGTAGTTGCTTCCTTTATCAGAAAAGAACATTTGATACCATGGTATATCATTTCTCTTCATTAAAGA  
ACAGCTTTTCTAAATGTTGGGGGAAATGTCCATAGTCATTACTCAGTCAAACTTGTGTTCTCATGAGCCTAAGG  
ACCATTCTAGATTTATTACGTGTTTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTATCCATAAAATGCATAT  
GTAAATTTTTTTTTGTTTTTAAGCATTCACCCAAACAAAAAATCACAGGTAAACCCATGTTTCTGAGATGCCAT  
TATTCCAAGCAAATAAGAGATAATCCCTTCAAGTTAAATTGAAAATTTTCTGAAACCATACATTTCAAGTGAA  
ATAAGTAATTCTAGATAGGACAATTTAAATTGGATAATTTTAAAGTGTCTATAATTGCAGTGGTTTATTTGCAA  
ATTCTTAAAAGGAAAAATTTTATCACTGCCATCACAGCAGGTTTCTCATCCAGATGAGGAACTAGACAAATGC  
TAGTGTGTTTTAACTAGCTAAACAAACTAAGTTAAATGAACATTTAAAAGTTTCCCTAGCGGGCCATTCTTAG  
CAAAATGTTGGAATCCCTGTTGCTACATTGACTAAAAGGTCATGATGAATGGAATATGTAAGACTTGGCTCATAG  
AAACCTAATCAGATGGTTAGAGGTGTTGGCAGTTTAGGACCTGCTGTCATAAATGTGTGAACAACCTTTTGTAAC  
CTAACCTATTGACCTGCATGTTTTTTCTTTACCCCAATTCATTACATGGAGGCTCAATCTTGAGTTTGCTTTACT  
GGTTCAGCAAAAAGCCAGGAAGAACAACCTTTGTAGTAATCAAATGTTATCCAAGTGTATATTGTTTACTTTATTG  
TAAATACTGGTGAACAGTGGTTAATAAATAGTTTTATATTCTTTATGCAA

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**FIGURE 2217**

MASNKTTLQKMGKKQNGKSKKVEEAEPEEFVVEKVLDRRVVNGKVEYFLKWKGF  
TDADNTWEPEENLDCPELIEA  
FLNSQKAGKEKDGTKRKSLSDSEDDSKSKKKRDAADKPRGFARGLDPERIIGATDSSGELMFLMKWKDSDEADL  
VLAKEANMKCPQIVIAFYERLTWHSCPEDEAQ

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**FIGURE 2218**

GACGGCAAATGGCGGACTTCGACACCTACGACGATCAGGCCTACAGCAGCTTCGGCAGCGGCAGAGGGTCCCGCG  
GCAGTGCTGGTGGCCATGGTTCCCGTAGCCAGAAGGAGTTGCCACAGAGCCCCCTACACAGCATACGTAGGAA  
ATCTACCTTTCAATACGGTTCGGGGCGACATAGATGCTATCTTTAAGGATCTCAGCATAAGGAGTGTACGGCTAG  
TCAGAGACAAAGACACAGATAAATTTAAAGGATTCTGCTATGTAGAATTTCGATGAAGTGGATTCCCTTAAGGAAG  
CCTTGACATACGATGGTGCACCTGTTGGGCGATCGGTCACTTCGTGTGGACATTGCAGAAGGCAGAAAACAAGATA  
AAGGTGGCTTTGGATTTCAGAAAAGGTGGACCAGATGACAGAGGCTTCAGGGATGACTTCTTAGGGGGCAGGGGAG  
GTAGTCGCCCAGGCGACCGGCGAACAGGCCCCCATGGGCAGCCGCTTCGGAGATGGCCCTCCCTCGGTGGAT  
CCAACATGGATTTTCAGAGAACCCACAGAAGAGGAAAGCGCACAGAGACCACGACTCCAGCTTAAACCTCGAACAG  
TCGCGACGCCCCCTCAATCAAGTAGCCAATCCCAACTCTGCTATCTTCGGGGGTGCCAGGCCTAGAGAGGAAGTTG  
TTCAAAAGGAGCAAAAATGAGCCTGCGGTTGGGAGGGAATGGGGCGTGGGGGGTTAGAGCAGGACCACAGCCTGG  
TGAGTCCCCGGGCAGCCGTCTGCAGCCGCCACTCCTGCGCCTGCCATTGGCCTCCTCACAGCGGAAACACAGCT  
TGTGAGTGATGTCAGCTGTTAACAAGTGGTTTTTAGTACATTCTGGGCTTTGCTGTATCTATCTAGTGCCTGTT  
TGTGCGTTTTTTCTTTCTTCCGCTGCTTCCCCATTTTCTTTCTGTCTTTTTCTCCTGCTCCTTGTTTTCCAG  
CAGCACACGGGGTTCTCGGAGGAGCAGAGGTGGCCGCCGTTGGGGGGCGTTTGGGCTGCGGTGCTGCGTCATTT  
TTCTTTTGCTTTCTCTTTACTTTAGACACTGGCCCAACTCCAGGAGTTTCTTTTCATTCCCTCAGTGCTTCTCTT  
CTGACCTGCATGTTGAGTTCTGTATTGCTGGGGCTTCCAACAAAACCAGAGTCACTGACAGAGGGAACCTGCAGA  
GACCTTGTTGGTATTTCAGCTGTGATGGATATAGAGAATCGGAGGCACCTTGTTTTACAACCTAGGATAAAAATAT  
CTGCAGGGTCCCTTTCCATTCCCTATTTAGAGGGAGTCTGGCTCCATGACCCCTCCCGAGTGGACTGTCCAAGCA  
GATAGGCTCACACGAGAAACAGTGAGGCTGAAAGGGGGGGCCATGGAAGAGCGGTAGGGAGTCCACGGAGAAGAT  
GCAGTGAATGCTTGCATGCATTACACGCTGTGTGTGTGCCAGCTAGTTCACTCCTTTCGCCGTGCGTGGTGGAGG  
CTCGCCTCTCTGGCCGGGTGCAGTGAACGGCCAGCGGGTTTCTTTCTGCTGGGCCAAGGCGCTTTGGGGGTGGA  
GGGGGTGGTGTGCTGGCGCTGCACTGGGCTGACTGCGGCGCTGACACAGCGTTTCCCCCATCCCTGTTGCTGTGT  
GTTGTGTGGATCTGTTCTTAGTATAGGCAACATAATGAGATACTGTGCTTCCACCTCCCTTCAGTTCAGAGCC  
AAAATGGGTCTAGAATCTGGCACTTTACTCATTTCTTTGATAAATTGTACTGTGCAGAGCTGTGAGGAACCTTC  
AGATAGCAGTAGAGGACTGCAGCTGCCTAGGTCTGCGGCCACATCTTGGGGACACACTGGATTGTTCCCATGTGC  
AGGGTTCAGCACTTACGTGGGAGTGCTAGGGGTTAGGCTTTTGAGCTTGAACGCCTGCGTGTGAACAGATGAAAA  
ATCCTTCAGTACCCAAGTCCCAGTCTGTCTATGGGGAGCAGTTTGGGGGCGGCCGGCAGCAGGAGCCTGGGAAA  
GAGGCCCTCGCCAGGTGATGGCAGGGCCAGGGTGGCCTGGGGCACCCAGCGGAATGTGCTTAGTATTTGGTCACC  
AGCCGTCATCCTGGGCTTTTCTACTGTGTCTTGTACAAGGCCTCAGCAATCCACAGAACTCTCTCTCTCTCTCT  
TCCACCTGTCAGCTTCTCTGCTTCTGAGATAAGAACCATTTGTGTAACACCAACACTTAACCTCAGAAAGACATG  
CATTATGTGGTGTAAATCAAACCCGAGGCTTTTCAGATGACCTACTTACATCTTCAATGTGGATAAGATAAAGAACA  
AAACACATGCATCTAACTGCTGGGCAATCCAGTTGACTTTTAAATGTAAGAATGGAATTCAAACACTTAACAC  
ATTCAGCTATATGACAGAAAGTAAATCTATGGATATGGTATTTTGTGAATGATCTTTTAAATAAAAGAAAACCTT  
ACGTAATATTT

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**FIGURE 2219**

GGAGCGGAGACGGCAAATGGCGGACTTCGACACCTACGACGATCAGGCCTACAGCAGCTTCGGCAGCGGCAGAGG  
GTCCCGCGGCAGTGCTGGTGGCCATGGTTCCCGTAGCCAGAAGGAGTTGCCACAGAGCCCCCTACACAGCATA  
CGTAGGAAATCTACCTTTCAATACGGTTCGGGGCGACATAGATGCTATCTTTAAGGATCTCAGCATAAGGAGTGT  
ACGGCTAGTCAGAGACAAAGACACAGATAAAATTTAAAGGATTCTGCTATGTAGAATTCGATGAAGTGGATTCCCT  
TAAGGAAGCCTTGACATACGATGGTGCCTGTTGGGCGATCGGTCACTTCGTGTGGACATTGCAGAAGGCAGAAA  
ACAAGATAAAGGTGGCTTTGGATTACAGAAAAGGTGGACCAGATGACAGAGGCTTCAGGGATGGCCCTCCCTCGG  
TGGATCCAACATGGATTTACAGAGAACCCACAGAAGAGGAAAGCGCACAGAGACCACGACTCCAGCTTAAACCTCG  
AACAGTCGCGACGCCCCCTCAATCAAGTAGCCAATCCCAACTCTGCTATCTTCGGGGGTGCCAGGCCTAGAGAGGA  
AGTTGTTCAAAAGGAGCAAAAATGAGCCTGCGGTTGGGAGGGAATGGGGCGTGGGGGGTTAGAGCAGGACCACAG  
CCTGGTGAGTCCCCGGGCAGCCGTCCTGCAGCCGCCACTCCTGCGCCTGCCATTGGCCTCCTCACAGCGGAAACA  
CAGCTTGTGAGTGCATGTCAGCTGTTAACAAGTGGTTTTTAGTACATTCTGGGCTTTGCTGTATCTATCTAGTGC  
CTGTTTGTGCGTTTTTTTTCTTTCTTCCGCTGCTTCCCCATTTTCCTTCCACCTGTCAGCTTCTCT

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**FIGURE 2220**

GGAGCGGAGACGGCAAATGGCGGACTTCGACACCTACGACGATCAGGCCTACAGCAGCTTCGGCAGCGGCAGAGG  
GTCCCGCGGCAGTGCTGGTGGCCATGGTTCCCGTAGCCAGAAGGAGTTGCCACAGAGCCCCCTACACAGCATA  
CGTAGGAAATCTACCTTTCAATACGGTTCGGGGCGACATAGATGCTATCTTTAAGGATCTCAGCATAAGGAGTGT  
ACGGCTAGTCAGAGACAAAGACACAGATAAAATTTAAAGGATTCTGCTATGTAGAATTCGATGAAGTGGATTCCCT  
TAAGGAAGCCTTGACATACGATGGTGCCTGTTGGGCGATCGGTCACTTCGTGTGGACATTGCAGAAGGCAGAAA  
ACAAGATAAAGGTGGCTTTGGATTTCAGAAAAGGTGGACCAGATGACAGAGGCTTCAGGGATGACTTCTTAGGGGG  
CAGGGGAGGTAGTCGCCCAGGCGACCGGCGAACAGGCCCCCCCCATGGGCAGCCGCTTCGGAGATGGCCCTCCCCT  
CGGTGGATCCAACATGGATTTTCAGAGAACCCACAGAAGAGGAAAGCGCACAGAGACCACGACTCCAGCTTAAACC  
TCGAACAGTCGCGACGCCCCTCAATCAAGTAGCCAATCCCAACTCTGCTATCTTCGGGGGTGCCAGGCCTAGAGA  
GGAAGTTGTTCAAAAGGAGCAAAAATCAGCCTGCCATTGGCCTCCTCACAGCGGAAACACAGCTTGTGAGTGCAT  
GTCAGCTGTTAACAAGTGGTTTTTAGTACATTCTGGGCTTTGCTGTATCTATCTAGTGCCTGTTTGTGCGTTTTT  
TTCTTTCTTCGCTGCTTCCCCATTTTCCTTC

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**FIGURE 2221**

MADFDTYDDQAYSSFGSGRGSRGSSAGGHGSRSQKELPTEPPYTAYVGNLFPNTVVRGDDAIFKDLSIRSVRLVRD  
KDTDKFKGFCYVEFDEVDSLKEALTYDGALLGDRSLRVDIAEGRKQDKGGFGFRKGGPDDRGFRDDFLGGRGGS  
PGDRRTGPPMGSRFGDGPPLGGSNMDFREPTEEESAQRRLQLKPRTVATPLNQVANPNSAIFGGARPREEVVQK  
EQK

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**FIGURE 2222**

CGCGTCAGGCCGCTCCTCTCGGCTCCGCGCTCCTTCCCTCGCGCGTGGGCACCCGCCCCCGAGCGGTGAGAGCGC  
GTGCGCGCGCGCCCTTCTCCGTGGGCGAGCCAGCCAGTCCCGCTGCACACGCTCGCAGTCTGTGGGCCCTCCGGG  
AGGCGGCGGAGGTACCGCGGGGAGAGGGGCGGGCGCAGCATGGCAGCCTCCTTACGGCTCCTCGGAGCTGCCTC  
CGGTCTCCGGTACTGGAGCCGGCGGCTGCGGCCGGCAGCCGGCAGCTTTGCAGCGGTGTGTTCTAGGTCACTGGC  
TTCAAAGACTCCAGTTGGATTCAATTGGACTGGGCAACATGGGGAATCCAATGGCAAAAAATCTCATGAAACATGG  
CTATCCACTTATTATTTATGATGTGTTCCCTGATGCCTGCAAAGAGTTTCAAGATGCAGGTGAACAGGTAGTATC  
TTCCCCAGCAGATGTTGCTGAAAAAGCTGACAGAATTATTACAATGCTGCCCACCAGTATCAATGCAATAGAAGC  
TTATTCCGGAGCAAATGGGATTCTAAAAAAGTGAAGAAGGGCTCATTATTAATAGATTCCAGCACTATTGATCC  
TGCAGTTTCAAAGAATTGGCCAAAGAAGTTGAGAAAATGGGAGCAGTTTTTCATGGATGCCCTGTTTCTGGTGG  
TGTAGGAGCTGCACGATCTGGGAACCTCACGTTTATGGTGGGAGGAGTTGAAGATGAATTTGCTGCTGCCAAGA  
GTTGCTGGGGTGCATGGGCTCCAACGTGGTGTACTGTGGAGCTGTTGGGACTGGGCAGGCGGCAAAGATCTGCAA  
CAACATGCTGTTAGCTATTAGTATGATTGGAACGTCTGAAGCTATGAATCTTGGAATCAGGTAGGGCTTGACCC  
AAAACCTACTGGCTAAAATCCTAAATATGAGCTCAGGACGGTGTGGTCAAGTGACACTTATAATCCTGTACCTGG  
AGTGATGGATGGCGTTCCCTCGGCTAATAACTATCAGGGTGGATTTGGAACAACACTCATGGCTAAGGATCTGGG  
ATTGGCACAAGACTCTGCTACCAGCACAAAGAGCCCAATCCTTCTTGCCAGTCTGGCCCATCAGATCTACAGGAT  
GATGTGTGCAAAGGGCTACTCAAAGAAAGACTTCTCATCCGTGTTCCAGTTCCCTACGAGAGGAGGAGACCTTCTG  
AGTGTGCCCTTTGGCCACGGACACTGTTGGGAACCAAACCTCTGTCTTGAGCCTCCTTTTAGCTCACTCCACAAG  
TAAATGGATTTAATCAAAGGTCACCTATCTGCTTTTGATTGTCTAGGTCACAGTAATCCCTAGGATTTTTTCACCG  
CTTATTCTTTTTGTCTTTTTTAACAAACATATTATCCGAATTTTTTTTCTGCAAGCCACTGATAGTCTCTGCTAAC  
TAGCTTAATTGACCTTTTTTACAAAGTTTGATCCCCAAGCATCTCAACTAAATCATTGAATACTTCAATCAGGAT  
ATTATCTGCTTTACTTTACAAATAAAACCAAATCTTTTGTCACAGGATGAAACCCATCTTAAAGGAAAGAAAAG  
GAATTGGTGTGAAGAGAGAAGTTAGAGAAGGGAAATGCAGTGAATTACTATCTGTGTCCATCAGGAAGTTTGTCC  
TGTTAACCAAATGGTTACTGCACTACCAGGGTTACTGGTTTATTTTCCAGGGAGCTGATAAAGCAGGAGAACTGT  
TGCTGCATGTTTTCTATTTGGACTCCGTACAAATATGGTAGGATATCCCTCACCACTCCCGACACTCAGCAGAC  
TTGTTTTTATATTTTTTCTTTCTTGTTTATTCTTACTACGTATTTTTTGACTTAAGAATGACATCTTTAGATGC  
ATTTTCAGAGCCAATGATGATATTTGCTTTAGATAATTATTATATTATTATAAATATAGCCATATTATTTTGAATT  
CAAATAAATTTCTATACTGGT



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**FIGURE 2223**

MAASLRLLGAASGLRYWSRRLRPAAGSF AAVCSRSVASKTPVGFIGLGNMGNPMAKNLMKHGYPLIIYDVFPDAC  
KEFQDAGEQVVSSPADVAEKADRIITMLPTSINAIEAYSGANGILKKVKKGSLIDSSTIDPAVSKELAKEVEKM  
GAVFMDAPVSGGVGAARSGNLT F MVGGVEDEF AAAQELLGCMGSNVVYCGAVGTGQAAKICNNMLLAISMIGTAE  
AMNLGIRLG LDPKLLAKILNMSSGRCWSSDTYNPVPGVMDGVP SANNYQGGFGTTLMAKDLGLAQDSATSTKSP I  
LLGSLAHQIYRMMCAKGYSKKDFSSVFQFLREEETF

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**FIGURE 2224**

GACGCAAGGCCTACTGTCTGGCTGGGAGGGGAGGTGTAGCCGGTCTTTGGGGGTAGGCGGTAGTGGCGGAAGAGGT  
TCGGCGGCTGATGGCGGATCAGGATCGGAAGCCTGCGTAACTTTCTCCCTTGATCCGGGAGTCTTTCCACTGGAT  
TCACAATGACATCCTTTCAAGAAGTCCCATTGCAGACTTCCAACCTTTGCCCATGTCATCTTTCAAAATGTGGCCA  
AGAGTTACCTTCCTAATGCACACCTGGAATGTCATTACACCTTAACTCCATATATTCATCCACATCCAAAAGATT  
GGGTTGGTATATTCAAGGTTGGATGGAGTACTGCTCGTGATTATTACACGTTTTTATGGTCCCTATGCCTGAAC  
ATTATGTGGAAGGATCAACAGTCAATTGTGTACTAGCATTCCAAGGATATTACCTTCCAAATGATGATGGAGAAT  
TTTATCAGTTCTGTTACGTTACCCATAAGGGTGAAATTCGTGGAGCAAGTACACCTTTCCAGTTTCGAGCTTCTT  
CTCCAGTTGAAGAGCTGCTTACTATGGAAGATGAAGGAAATTCGTACATGTTAGTGGTGACCACAAAAGCAGGCC  
TTCTTGAGTTGAAAATTGAGAAAACCATGAAAGAAAAAGAAGAACTGTTAAAGTTAATTGCCGTTCTGAAAAAG  
AAACAGCACAACTTCGAGAAACAAGTTGGGAGAAATGGAAGAGAACTTAACCATGAGAAAGAAAGATGTGACCAAC  
TGCAAGCAGAAACAAAAGGGTCTTACTGAAAGTAACACAAAGCTTAAAAATGGAAGATGAAGAGTTAAGAAGAGGT  
TCAGTGATGCTACATCCAAAGCCCATCAGCTTGAGGAAGATATTGTGTGTCAGTAACACATAAAGCAATTGAAAAAG  
AAACCGAATTAGACAGTTTAAAGGACAACTCAAGAAGGCACAACATGAAAGAGAACAACCTGAATGTCAGTTGA  
AGACAGAGAAGGATGAAAAGGAACTTTATAAGGTACATTTGAAGAATACAGAAATAGAAAATACCAAGCTTATGT  
CAGAGGTCCAGACTTTAAAAAATTTAGATGGGAACAAAGAAAGCGTGATTACTCATTTCAAAGAAGAGATTGGCA  
GGCTGCAGTTATGTTTGGCTGAAAAGGAAAAATCTGCAAGAAGCTTTCCTGCTTACAACCTCAAGTAAAGAAGATA  
CTTGTTTTTTAAAGGAGCAACTTCGTAAAGCAGAGGAACAGGTTTCAGGCAACTCGGCAAGAAGTTGTCTTTCTGG  
CTAAAGAACTCAGTGATGCTGTCAACGTACGAGACAGAACGATGGCAGACCTGCATACTGCACGCTTGAAAAACG  
AGAAAGTGAAAAAGCAGTTAGCTGATGCAGTGGCAGAACTTAACTAAATGCTATGAAAAAGATCAGGACAAGA  
CTGATACACTGGAACACGAACCTAAGAAGAGAAGTTGAAGATCTGAACTCCGCTTTCAGATGGCTGCAGACCATT  
ATAAAGAAAAATTTAAGGAATGCCAAAGGCTCCAAAAACAAATAAACAACTTTTCAGATCAATCAGCTAATAATA  
ATAATGTCTTCACAAAGAAAACGGGGAATCAGCAGAAAGTGAATGATGCTTCAGTAAACACAGACCCAGCCACTT  
CTGCCTCTACTGTAGATGTAAAGCCATCACCTTCTGCAGCAGAGGCAGATTTTGACATAGTAACAAAGGGGCAAG  
TCTGTGAAATGACCAAGAAATTGCTGACAAAACAGAAAAGTATAATAATGTAAACAACCTTTGCAGGATGAGA  
AAGCAAAATGCAATAAATATGCTGATGAACCTGCAAAAATGGAGCTGAAATGGAAAGAACAAGTGAAAATTGCTG  
AAAAATGTAAACTTGAAGTACAGGACAATTATAAAGAACTTAAAGGAGTCTAGAAAATCCAGCAG  
AAAGGAAAATGGAAGGTCAGAATTCCCAGAGTCTCAATGTTTCAAAACATGCTCAGAGCAAAATGGTTATGTTT  
TCACATTGTCAAATGCACAACCAAGTTCTGCAATATGGTAATCCTTATGCATCTCAGGAAACAAGAGATGGAGCAG  
ATGGTGCTTTTTACCCAGATGAAATACAAAGGCCACCTGTCAGAGTCCCCCTCTTGGGGACTGGAAGACAATGTTG  
TCTGCAGCCAGCCTGCTCGAACTTTAGTCGGCCTGATGGCTTAGAGGACTCTGAGGATAGCAAAGAAGATGAGA  
ATGTGCCTACTGCTCCTGATCCTCCAAGTCAACATTTACGTGGGCATGGGACAGGCTTTTGCTTTGATTCCAGCT  
TTGATGTTCAACAAGAGTGTCCTCTGTGAGTTAATGTTTCTCCTAACTATGATCAGAGCAAATTTGAAGAAC  
ATGTTGAAAGTCACTGGAAGGTGTGCCGATGTGCAGCGAGCAGTTCCCTCCTGACTATGACCAGCAGGTGTTT  
AAAGGCATGTGCAGACCCATTTTGATCAGAATGTTCTAAATTTTGACTAGTTACTTTTTATTATGAGTTAATATA  
GTTTAGCAGTAAAAAAAAAAAAAAAAAACACACCTAAATAGACCACTGAGGAGACCATAGAGCGGATGCTTTCA  
TGCACCCCTTTACTGCACTTTCTGACCAGGAGCTACTTTGAGTTTGGTGTTACTAGGATCAGGGTCAGTCTTTGGC  
TTATCAATAAAATTTAATCTCTGTTAATCTTACCTGCTTTAAAAAAAAGTTCTTGTTGTTTCTGATCTTTATTTA  
TTCCCTAGTTTGCAAGCTGTCTGAATAAAGGATACAAGGATTATTTCAATGTTACTGCACTGAAAAACGTGTAT  
GTATTAGTGTGCTAGATTATTTAGCAGAATATTCACAAGTTTCTGTTGACCTTGTTGATTGAGCATGACTACTAA  
ATATTATGTAATAAAAAGCATTGTGCATAAC

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**FIGURE 2225**

ATGGAGAAGCAGAGAGGGAAGTGCAGAGACAGGTCACCCAGGCGCCTGGAAACTGCCTCTATGGCCTTCACGGGA  
AACGGCCTCTTTCTACTCCGGATCCCAGACTGTGTTTCTTTGAAACTGACCGTCAGAGGAGAGCGGCTGGAGGCG  
GACAGACGTCTGCAGTGGGAGGCGCTCCAGGCGTTCCAGGCAGTGTCTGCGGGCGAGTCACCCGCGACCGCGAG  
TCACCTCACCAAGCCCTGAATTGGGACAGGAGACGAGACGTGTCGACGAGCTGCGGAGTTCCTCGCTTCTCTGGG  
CCCTGCCAGCTCACAGCCAAGGTGCACCAGAGCCTCCGTCACCGCCCCTACAGAGCACGTACTTTTATCACACGA  
ACTATGACTCAGACACCACAAACCCAGACCAGGCCTCCAGGTCAGAAGTTGACTCCCCTGAGGCCTGTGGTAGGA  
GAATGTGGTCTGGAAAATGAGGTGTCACTGGTGATCAGACATCATCACTTTTCTAGTGACTGTCAGCTTAGTTTT  
GTCCTACAGTTGTCTTGA

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**FIGURE 2226A**

CCCCGACTAGCCCCGACAGTCCCCGACTAGCCCCGACAGCCCCAGCAGGATCTGCATCGTTCATCGAGCCGGCCCCAGC  
TTCTGAAGGGAGATGTCAATGGTGAAATGCTACCACAAGAAATACCGCTCGGCCACCCGTGACGTCAATTTCCGCC  
TGCAGTTTACACTGGGGCTGTGCAGGGCTACGGGCTGGTGTGTTGGGAAGGAGGATCTGGACAATGCCAGCAAAG  
ATGACCGTTTTCTGACTATGGGAAGGTTGAATTAGTCTTCTCTGCCACGCCTGAGAAGATTCAAGGGTCCGAAC  
ACTTGTACAACGACCACGGTGTGATTGTGGACTACAACACAACAGACCCACTGATACGCTGGGACTCGTACGAGA  
ACCTCAGTGCAGATGGAGAAGTGCTACACACGCAGGGCCCTGTGCATGGCAGCCTTTACGCGAAGGTGAGGAAGA  
AAAGCTCCTCGGATCCTGGCATCCCAGGTGGCCCCCAGGCAATCCCGGCCACCAACAGCCCAGACCACAGTGACC  
ACACCTTGCTGTCTCAGCAGTGAATCCGGCCACTCTACAGCCTCTGCCAGGACGGATAAGACGGAAGAGCGCCTGG  
CCCCAGGAACCAGGAGGGGCTGAGTGCCAGGAGAAGGCAGAGTTGGACCAGCTGCTCAGTGGCTTTGGCCTGG  
AAGATCCTGGAAGCTCCCTCAAGGAAATGACTGATGCTCGAAGCAAGTACAGTGGGACCCGCCACGTGGTGCCAG  
CCCAGGTTACAGTGAATGGAGACGCTGCTCTGAAGGATCGGGAGACAGACATTCTGGATGACGAGATGCCCCACC  
ACGACCTGCACAGTGTGGACAGCCTTGGGACCCCTGTCTCTCGGAAGGGCCTCAGTCGGCCACCTGGGTCCCT  
TCACCTGCCACAAGAGCAGCCAGAACTCACTCCTATCTGACGGTTTTTGGCAGCAACGTTGGTGAAGATCCGCAGG  
GCACCTCGTTCCGGACCTGGGCCTTGGCATGGACGGCCCCATGAGCGGGAGCGGACTTTTGGGAGTCGAGAGC  
CCAAGCAGCCCCAGCCCCCTGCTGAGAAAGCCCTCAGTGTCCGCCAGATGCAGGCCTATGGGCAGAGCAGCTACT  
CCACACAGACCTGGGTGCGCCAGCAGCAGATGGTTGTAGCTCACCAGTATAGCTTCGCCCCAGATGGGGAGGCCC  
GGCTGGTGAGCCGCTGCCCTGCAGACAATCTGGCCTCGTCCAGGCCAGCCAGAGTGCCACTCACCCCCACCC  
GAGGGACCAGCAGTAGGGTGGCTGTCCAGAGGGGTGTAGGCAGTGGGCCACATCCCCCTGACACACAGCAGCCCT  
CTCCAGCAAAGCGTTCAAACCCAGTTTTCCAGGAGACCAGGTTGTGAATGGAGCCGGCCAGAGCTGAGCACAG  
GCCCCCTCCCCAGGCTCGCCACCCCTGGACATCGACCAGTCCATCGAGCAGCTCAACAGGCTGATCCTGGAGCTGG  
ATCCACCTTCGAGCCCATCCCTACCCACATGAACGCCCTCGGTAGCCAGGCCAATGGCTCTGTGTCTCCAGACA  
GCGTGGGAGGTGGGCTCCGGGCAAGCAGCAGGCTGCCTGACACAGGAGAGGGCCCCAGCAGGGCCACCGGGCGGC  
AAGGCTCCTCTGCTGAACAGCCCCCTGGGCGGGAGACTCAGGAAGCTGAGCCTGGGGCAGTACGACAACGATGCTG  
GGGGGCAGCTGCCCTTCTCAAATGTGCATGGGGAAGGCTGGTGTGGACTATGCCCCAAACCTGCCGCCATTCC  
CCTCACCAGCGGACGTCAAAGAGACGATGACCCCTGGCTATCCCCAGGACCTCGATATTATCGATGGCAGAATTT  
TAAGTAGCAAGGAGTCCATGTGTCAACTCCAGCATTTCCTGTGTCTCCAGAGACACCGTATGTGAAAACAGCGC  
TGCGCCATCCTCCGTTACAGCCACCTGAGCCCCGCTGAGCAGCCAGCCAGTCAGCACAAAGGAGGACGTGAAC  
CACGAAGCTGCCCTGAGACGCTCACTCACGCTGTGGGGATGTGAGAGAGCCCCATCGGACCCAAATCCACGATGC  
TCCGGGCTGATGCGTCTCGACGCCCTCCTTTAGCAGGCTTTTGCTTCTTCTGCAACATTTCCAGCAACGGCC  
CTGGGCAGAGGAGAGAGAGCTCCTCTTCTGAGAACGCCAGTGGGTGGAGAGCAGCCCCAAGCCCATGGTTTTCC  
TGCTGGGGAGCGGCCGGCCACCGGAAGTCCCTCAGCGCTGAGTTCTCCGGTACCAGGAAGGACTCCCCAGTGC  
TGTCTGCTTCCCGCCGTCAGAGCTCCAGGCTCCTTTCCACAGCCATGAGCTGTCCCTAGCAGAGCCACCGGACT  
CCCTGGCGCCTCCCAGCAGCCAGGCCTTCTGGGCTTCGGCACCGCCCCAGTGGGAAGTGGCCTTCCGCCGAGG  
AGGACCTGGGGGCTTGCTGGCCAATTCTCATGGAGCGTCACCGACCCCCAGCATCCCGCTGACAGCGACAGGGG  
CTGCCGACAATGGCTTCTGTCCCACAACTTTCTACGGTGGCGCCTGGACACAGCAGCCACCACAGTCCAGGCC  
TGCAGGGCCAGGGTGTGACCTGCCCGGGCAGCCACCCCTCCCTGAGAAGAAGCGGGCCTCGGAGGGGGATCGTT  
CTTTGGGCTCAGTCTCTCCCTCCTCCAGTGGCTTCTCCAGCCCGCACAGCGGGAGCACCATCAGTATCCCTTCC  
CAAATGTCCTTCCCGACTTTTCCAAGGCTTCAGAAGCGGCCTCACCTCTGCCAGATAGTCCAGGTGATAAATTG  
TGATCGTGAAATTTGTTCAAGACACTTCCAAGTTCTGGTACAAGGCGGATATTTCAAGAGAACAAGCCATCGCCA  
TGTTGAAGGACAAGGAGCCGGGCTCATTCATTGTTTCGAGACAGCCATTCTTCCGAGGGGCTATGGCCTGGCCA  
TGAAGGTGGCCACGCCCCACCTTCAGTCTGCAGCTGAACAAGAAAGCTGGAGATTTGGCCAATGAACTCGTCC  
GGCATTTTTTGATCGAGTGTACCCGAAGGGAGTGGGTTGAAAGGGTGCTCGAATGAACCATATTTCCGGAGCC  
TGACGGCCTTGGTGTGCCAGATTCCATCACGCCCTTGGCCTTGGCGTGCAAGCTGCTTATCCAGAGAGAGATC  
CATTGGAGGAAATAGCAGAAAGTTCTCCCCAGACGGCAGCCAATTCAGCAGCTGAGCTGTTGAAGCAGGGGGCAG  
CCTGCAACGTGTGGTACTTGAACCTCTGTGGAGATGGAGTCCCTCACCGGCCACCAGGCGATCCAGAAGGCCCTGA  
GCATCACCTGGTCCAGGAGCCTCCACCTGTGTCCACAGTTGTGCACTTCAAGGTGTGAGCCAGGGCATCACCC  
TGACAGACAATCAGAGGAAGCTCTTCTTCCGGAGGCATTACCCCGTGAACAGTGTGATTTTCTGTGCCTTGGACC  
CACAAGACAGGAAGTGGATCAAAGATGGCCCTTCTCAAAGTCTTTGGATTTGTGGCCCGGAAGCAGGGCAGTG

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**FIGURE 2226B**

[illegible]

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**FIGURE 2227**

MVKCYHKKYRSATRDVIFRLQFHTGAVQGYGLVFGKEDLDNASKDDRFPDYGKVELVFSATPEKIQGSEHLYNDH  
GVIVDYNTTDLIRWDSYENLSADGEVLHTQGPVDGSLYAKVRKKSSSDPGIPGGPQAIPATNSPDHSDHTLSVS  
SDSGHSTASARTDKTEERLAPGTRRGLSAQEKAELDQLLSGFGLEDPGSSLKEMTDARSKYSGTRHVVAQVHVN  
GDAALKDRETDILDDEMPHHDLHSVDSLGLTLSSSEGPQSAHLGPFTCHKSSQNSLLSDGFGSNVGEDPQGTLPD  
LGLGMDGPYERERTFGSREPKQPQLLRKPSVSAQMQAYGQSSYSTQTWVRQQQMVAHQYSFAPDGEARLVSR  
PADNPGLVQAQPRVPLTPTRGTSSRVAVQRGVSGPHPPDTQQPSPSKAFKPRFPGDQVVNGAGPELSTGPPSGS  
PTLDIDQSIEQLNRLILELDTFEP IPTHMNALGSQANGSVSPDSVGGGLRASSRLPDTGEGPSRATGRQGSSAE  
QPLGGRLRKL SLGQYDNDAGGQLPFSKCAWGKAGVDYAPNLPPFPSPADVKEITMPGYPDLDIIDGRILSSKES  
MCSTPAFPVSPETPYVKTA LRHPPFSPPEPPLSSPASQHKGGREPRSCPETLTHAVGMSESPIGPKSTMLRADAS  
STPSFQQAFASSCTISSNPGQRRESSSSAERQWVESSPKPMVSLLGSGRPTGSPLSAEFSGTRKDSVLSCFPP  
SELQAPFHSHEL SLAEPDSLAPPSSQAFLGFGTAPVGSGLPPEEDLGALLANSHGASPTPSIPLTATGAADNGF  
LSHNFLT VAPGHSSHHSPGLQGQGVTLPGQPPLPEKKRASEGDRSLGSVSPSSSGFSSPHSGSTISIPFPNVLPD  
FSKASEAASPLPDSPGDKLVIVKFVQDTSKFWYKADISREQAIAMLDKEPGSFIVRDSHSFRGAYGLAMKVATP  
PPSVLQLNKKAGDLANELVRHFLIECTPKGVRLKGCNEPYFGSLTALVCQHSITPLALPCKLLIPERDPLEEIA  
ESSPQTAANSAAELLKQGAACNVWYLSNVEMESLTGHQAIQKALSITLVQEPPPVS TVVHFKVSAQGITLTDNQR  
KLFFRRHYPVNSVIFCALDPQDRKWIKDGPSSKVFGFVARKQGSATDNVCHLFAEHDPEQPASAI VNFVSKVMIG  
SPKKV

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**FIGURE 2228**

GGCACGAGGCACAGCTTCGCGCCGTGTACTGTCGCCCCATCCCTGCGCGCCCAGCCTGCCAAGCAGCGTGCCCCG  
GTTGCAGGCGTCATGCAGCGGGCGCGACCCACGCTCTGGGCGGCTGCGCTGACTCTGCTGGTGCTGCTCCGCGGG  
CCGCCCCGTGGCGCGGGCTGGCGCGAGCTCGGGGGGCTTGGGTCCCGTGGTGCGCTGCGAGCCGTGCGACGCGCGT  
GCACTGGCCCACTGCGCGCCTCCGCCCCGCGTGTGCGCGGAGCTGGTGCGCGAGCCGGGCTGCGGGTGTGCGCTG  
ACGTGCGCACTGAGCGAGGGCCAGCCGTGCGGCATCTACACCGAGCGCTGTGGCTCCGGCCTTCGCTGCCAGCCG  
TCGCCCCAGGAGGCGCGACCGCTGCAGGCGCTGCTGGACGGCCGCGGGCTCTGCGTCAACGCTAGTGCCGTGAGC  
CGCCTGCGCGCCTACCTGCTGCCAGCGCCGCGCAGCTCCAGGAAATGCTAGTGAGTCCGAGGAAGACCGCAGCGCC  
GGCAGTGTGGAGAGCCCGTCCGTCTCCAGCACGCACCGGGTGTCTGATCCCAAGTTCCACCCCTCCATTCAAAG  
ATAATCATCATCAAGAAAGGGCATGCTAAAGACAGCCAGCGCTACAAAGTTGACTACGAGTCTCAGAGCACAGAT  
ACCCAGAACTTCTCTCCGAGTCCAAGCGGGAGACAGAATATGGTCCCTGCCGTAGAGAAATGGAAGACACACTG  
AATCACCTGAAGTTCTCTCAATGTGCTGAGTCCCAGGGGTGTACACATTCCCAACTGTGACAAGAAGGGATTTTAT  
AAGAAAAAGCAGTGTGCGCCCTTCCAAAGGCAGGAAGCGGGGCTTCTGCTGGTGTGTGGATAAGTATGGGCAGCCT  
CTCCCAGGCTACACCACCAAGGGGAAGGAGGACGTGCACTGCTACAGCATGCAGAGCAAGTAGACGCTGCCGCA  
AGGTAAATGTGGAGCTCAAATATGCCTTATTTTGCACAAAAGACTGCCAAGGACATGACCAGCAGCTGGCTACAG  
CCTCGATTTATATTTCTGTTTGTGGTGAAGTGAATTTTTTTTAAACCAAAGTTTAGAAAGAGGTTTTTGAAATGCC  
TATGGTTTTCTTTGAATGGTAAACTTGAGCATCTTTTCACTTTCCAGTAGTCAGCAAAGAGCAGTTTGAATTTTCT  
TGTCGCTTCTATCAAAATATTAGAGACTCGAGCACAGCACCCAGACTTCATGCGCCCGTGGAATGCTCACCAC  
ATGTTGGTGAAGCGGCCGACCACTGACTTTGTGACTTAGGCGGCTGTGTTGCCTATGTAGAGAACACGCTTCAC  
CCCCACTCCCCGTACAGTGCACAGGCTTTATCGAGAATAGGAAAACCTTTAAACCCCGGTATCCGGACATCC  
CAACGCATGCTCCTGGAGCTCACAGCCTTCTGTGGTGTCAATTTCTGAAACAAGGGCGTGGATCCCTCAACCAAGA  
AGAATGTTTATGTCTTCAAGTGACCTGTACTGCTTGGGGACTATTGGAGAAAATAAGGTGGAGTCTACTTGT  
AAAAAATATGTATCTAAGAATGTTCTAGGGCACTCTGGGAACCTATAAAGGCAGGTATTTGCGGGCCCTCCTCTC  
AGGAATCTTCTGAAGACATGGCCCCAGTGAAGGCCAGGATGGCTTTTGCTGCGGCCCGTGGGGTAGGAGGGA  
CAGAGAGACAGGGAGAGTCAGCCTCCACATTCAGAGGCATCACAAGTAATGTCACAATTCTTCGGATGACTGCAG  
AAAATAGTGTGTTTGTAGTTCAACAACTCAAGACGAAGCTTATTTCTGAGGATAAGCTCTTTAAAGGCAAAGCTTT  
ATTTTCATCTCTCATCTTTTGTCTCCTTAGCACAAATGTAAAAAAGAAATAGTAATATCAGAACAGGAAGGAGGAA  
TGGCTTGCTGGGGAGCCCATCCAGGACACTGGGAGCACATAGAGATTCACCCATGTTTGTGTTGAAGTTAGAGTCAT  
TCTCATGCTTTTCTTTATAATTACACATATATGCAGAGAAAGATATGTTCTTGTTAACATTGTATACAACATAGC  
CCCAAATATAGTAAGATCTATACTAGATAATCCTAGATGAAATGTTAGAGATGCTATTTGATACAACCTGTGGCCA  
TGACTGAGGAAAGGAGCTCACGCCCAGAGACTGGGCTGCTCTCCCGGAGGCCAAACCCAAGAAGGTCTGGCAAAG  
TCAGGCTCAGGGAGACTCTGCCCTGCTGCAGACCTCGGTGTGGACACACGCTGCATAGAGCTCTCCTTGAAAACA  
GAGGGGTCTCAAGACATTCTGCCTACCTATTAGCTTTTCTTTATTTTTTTAACTTTTTGGGGGGAAAGTATTTT  
TGAGAAGTTTGTCTTGCAATGTATTTATAAATAGTAAATAAAGTTTTTACCATTAAAAAATAAAAAAAAAAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2229**

MQRARPTLWAAALTLLVLLRGPPVARAGASSGGLGPVVRCEPCDARALAQCAPP  
PAVCAELVREPGCGCCLTCAL  
SEGQPCGIYTERCGSGLRCQSPDEARPLQALLDGRGLCVNASAVSRLRAYLLPAPP  
PAPGNASESEEDRSAGSVE  
SPSVSSTHRVSDPKFHPLHSKIIIIKKGHAKDSQRYKVDYESQSTDTQNFSS  
ESKRETEYGPCRREMEDTLNHLK  
FLNVLSPRGVHIPNCDKKGFYKKKQCRPSKGRKRGFCWCVDKYGQPLPGYTT  
KGKEDVHCYSMQSK



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**FIGURE 2230A**

GCGGGTGTTCGCCTACGTCACTGGGGCGCTACAGTACCTGGAGCTGGGCAGTCTTCTCATCAGAGTGGGGACTAA  
TAACAGTGACCTCCCCGCCAGGTCTGTGTGTTGCCGGCTGAAGAAGGATGATGATTATTCACCTTCTGAGA  
GACAAAGACCAACGAGCCACCACAGCCACCAGTCCCAGAACCCGCCAATGCTGGGGAACGGAAAATGAGGGAGTT  
CAACTCTGGCCCTCACAATCCAGTGGAGGAGACGAAACTCATCTGCCTCTGTCCCTCTGGGCACGCTTCATGCCA  
GGTGCATCTGTGGACAGGGGCCATGCTCCTGGGCTTCCAAAGTTGGAGAAAGCTGCCAGGCTCAGAGCCACCTAA  
GCTGAAGATTCCCTTGAGAACAAAGTACTGTCTGTGGTTTCATGGCCCTTCTTCCATTGTGGTTCTTGTGAAGT  
GGAATTTAAATGACATCTTATCAAGATGGATAAACCTAGTTTTCCAGTGTGGAATATAGAAAATGGATGGACA  
AGTAAATCCCCTCATCACCCATAGTCCAGGCATGGGGACCTCAACACACCTGAGCCCCAGACATCACCTTTTCAT  
TCTGGACCTACCATGAAAAGACTTCTGAATCCAGGAAGAGAGACTGACTGGGCAACATGTTGTTTCAGAAAACAGGAC  
CTTGGCCCTGTCAATTTAGGATGGAGTTTCACTGGTCCAATCATGGCTCATTGTAGCCTCAAACCTCCAGGCTCAAGC  
AATCCTACCATGTGACCTTCCCAGTAGCTGGGACTACAGCTGGATCTACCATGAAAGACTTCTGAATCCAGGAA  
GAGAGACTGACTGGGCAACATGTTATTTCAGGGTCTCCCTCTCTTGTCCAAGGCTGGAGTGTAGTAGTGCTATCAC  
AGCTGACTGCAGCCTCAACCTTCCAGGCTGAAGCGATCTCCCATCTCAACCTCCCACGTGGCTGAGACTATAGG  
TGCTTGCCACTATGCCCAACTAATATTTGGAATTTTCTATACGTGGATTCCAGAGGGGTGACAGCGAAACGTGA  
GACCATCCAGTTGCAGAAAAACAAGCTTAACACGCCCACTGATTCTACATTATGCCCTACCTCCCGGCAGCCTC  
TCCAGGCCCCAGAATTTCTCCAGTCAGCCTCCACAGACCAAGCTCATGACTACAATGGCCTATTTAGGCCATA  
CCCTACCTCACGGCAGTCTCTGCAGATGAGGCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCACCGTTAC  
AATGGCCTCTTTAGACCCAGCTCCTGCCTCCAGCCTTCTCTCCAGGCCCTGAGCTTTCTCAAGTCGACCTCACC  
AGGCCCAGCTCATGCTTCTTGGCAGCCTCTCCAGGCCAGCTCCTGCATCTTGGCAGCCTCTCCAGGCCAGCCT  
CTGCCTCCTGTGACCTCTACAGTCCCAACATCTGCCTCACAGCAGATTCTTCAGGCCAGTATCTGCCTCACTG  
TGGACCACCCAAGCCAAGCTCCCAACCTTTTTCAGCAGCTTCTACACACCCAGCTCCTGCCACCCAGTGGCCTCTTT  
AGGCCAAGCTCATGCTCACAAGGGCCTTTTCCAGGCCCAACTTTTGTCTCATGGCAACCTTCCCTGGCCACATTC  
CTGCCTGTCTCCAGCAGCCTAGACAGGCCAGGTCTTGCCTCACACTGGCCTGTCTACATCCAGCTCTTGCCTC  
ACGGTGGCCTCTCCAGGCCAGCTCCTGTCCAGGACGTCTATCTCCAGGCCCAAACTTCTCAAGTCAGCCTCT  
CTAGTCCCAACTGCTGCCTCCTGGTGGCCTATGAAGGCCCAAAATCTCCTCAAGTTGACCTCTCCAGGCCAGCT  
CCTGCCTCCTGTGACGCTCTACAGGCCCAACCTCTGCCTCATGGGGGCTTCTCCAGGCCAGCTCTTCTCTGGG  
CTGAGTCTACAGGCACAACCTGCTGCCTCACAACAGCCTTTTTTGGCCAGTTCTGTCCAGCTCACAGCGACCAA  
TGTAGGCCCAAACTTCTCAAGTCAAACCTCTCCAGGCCTGCCTTCTTCTGTGGCATGAACAGGCCAGCTTT  
GACTTGAGAACAGCCTCTGCAGGCCCTGCTCTTGCCTCCAGGGGCTTCTCCAGGCCAGCTCTTGCCTCATGGC  
GGCTGCCCCAGGCCAAGTTTCTGCCTGCCTGCCAGCAGCCTCAACAGGCACAGCTCTTCCCTCACAGTGGCCAT  
TTAGGCCCAACTCATGACTGTGCGGCCATTTCCAGGCCTAGTGCTGCCTCCTGGCTGACTCTTGAAGCCAAAA  
CTTCTCAAAATCAGCCTTTTGGCCAACCTTCTGTCTACTGTGCGACTCTACAGGCCAGCCTCTGCCTCACAGTGA  
CCCTCCAGACCCAGATGGTGTCTCACTGTGGCATCCTCAGGCGAAGCTCCTGCCTTTCAGCAGCCTCTACGGGCC  
CAGCTCCTGCCTTGCAATGGCCTCTTTAGGCCAAGCTCATGCCCCACGGCGACTTTTCCAGGCACAGCTTTTGCC  
TTTTGCAGCCTGTCCAGGCCAGAAATGTCCTTAACCTGGCGTCTCCAGGACGAGCTCATCCTCCAGTGCCTCTA  
CAGGCCCGTCTCCTGCCTCACAACAACCTCCTTTGGTCCAACCTCCTGCTGAGCTGCTTGGCAGCCTCTGTAGGCC  
ACAGAGTTCTTAAAGTAAAGCTTTCCAGGCCACCTTTCGGCCTCCCGGCAGCCTCAGCAATCAAACCTATTCCTC  
ACTGCGGCCACCGAAAGCCAAGTTTCTCCCTGCCTCACAGCATCCTCCGAAAACCTGAGCATTGTGCTCACGGTGG  
CCTCCCCAGGCCACGAATCTGCCTGCCTCCAGGCAGCTGCTGCCTCACAATGGTCTCTTTAGGCCAGCTCTTG  
CTAAAAGACAGACTCTCCAGGCACAGCTCTTGCCTCTGAGGAGCTCTGAGGCCCAATTTCTCCAAAAGTTGGC  
CTCTCCTAACTCAGCTCCTGCCTCATGTGGCCTACACAGGCCAGACTCTTACCACACAGTAGACCTCCAGGC  
CCACCACTTGCTGAGCATAGCCTCCTAAGGCCAAGCTCCTGCCTTTCCGGCAGCCTCTACAGGCCAGCTCCTGC  
CTCGCAATTGCCTTTGTAGGCCAAGATCATGCCGCGAAGTGGCCTTTCTAGCCTAACTTTTGCTTTTTGACGCA  
TACTCCGGTCCCAAACTTCTCCAGTCAGCCAGTCCAGGCCAAGCTCTTCTCCCAAAGGCTTCTGCAGGCCAA  
AATCGTCTGAAGTCACCTCTGCAGGCCAGCTCCTGCCTCCAAGTGTGTGTAGGCCAAGCTAATGCCTCACA  
GCACACTTTCCAGGCTGAGCATTTCTTTTGTGCATCCTCTCCAAGCCCTGAACTTACTCCAGTTGGCCTCTCCA  
GACCAAGCTCTCCCTCCCAGTGGCCTCTACAGGCCAAAATTGTCTCAAGTCAGCCTCTCCAGGGCCAACTCCTA  
GCTACCGGTGGCTTCTGCAGGCCAAAATCGACCTCAAGTCAGCCTCTTACACCCAGCTCTTGTCTGTAAGTGGC

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**FIGURE 2230B**

CTCTGCAGGAGCAAACTGCCTCAAGTCGGCCTCTCCAGGCCAGCCTCCTGCTTCCCGAGGGCATGTACAGGCC  
CAGCCTCTGCCTCACAGCAGACTCTCCATGCCCAGCTCTTCCCTGTCTGCTGCCTCTCCAGTCCAAAGCTGCGCC  
TGCCTTTTCGGCAACTTGTACGGGGCCAGCTCCTCCCTCACGGTGGCCTCTTTTCGCCCCAACTCATGCCTCTTGCA  
ACCTGCCCCAAGTGTCAGCTCCTGCCTCACACTGGCCTCTTGAGGCTCAGCTCATGCCTCTCGTGGCCTCAACGGG  
CCCAGCCCCCTGCCTGTGCGCGGCCTCTACAGGCCAGCCTCTACCTCACAGTGGGCTCTCCAGGCCACCTCTTT  
CTCACCGTGGCCTCCTGGGGCAATGCTCCCCGCTCTCGGGAGCCTCTGCGGGCCCAGCTCCTGCCTCCAGTGGC  
CTCTGTAGGCCAAGCCCGTGCCTCAGGGCAGCCTTTCCAGGCCTAGCGTTTGCTGCTTTGCATCCTCTCCAGGCT  
CTGGACTTCTCCAGTCGGCCTCTCCAGGCCAGCTCTTCCCTCCCGGCGGCCTCTGCAGGCCAGACTGTTGTCA  
AGTCGGCCTGTCCAGGGCCAGCTCCTGCCTCCCGGTGCCCTCTGCAGGCCCAAGTCGTCTCAAGTCGGCCTCCC  
CAGGCCAGCTCCGGCCTCTCGGCGGCCGCTCCAGGTGAAAAGTTCCCTCGAGTCAGCCTCTCCAGGCCAGCTC  
CTCCTGCCTCCCAGCGGCCTCTTTTCGGCCCAGCCCAGCTCATGCCTCCCGGCTGCGTCTCTAGGCCCGACTCCGG  
CCTCCCAACAACCTCTTTGGACTCAGCTCCTGCCTCTCGAAGGCCTGCACGGGGCCCAGCCTCAGCCTCACAGCGG  
ACTCTCCACGCCCAGCTAGCTCTCGCCTCACTGCGGCCTCCCCAGTCGAAAGCTCCTGCCTTTTCGGCCGCTTTGG  
CAGGCCAGCTCCTGCCTGCCAGTGGCCTCTTTAGGCCAGCTCATTCCTCACAACGGCCTTTCCAGGCCCGTT  
TTTCCCTTCCGGCAGCCTTTTGGCCTCTAATTTGTTTATCTTTTGTGTATAAATCCCAAAATATGGAATTTTGA  
ATATTGCTACCAT

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**FIGURE 2231**

MLPPGSLSRPRTFSSQPLQTKLMTHNGLFRPIPYLTAVSADEPTASQQPPQAQLHRYNGLFRPSSCLPAFSPGP  
ELSQVDLTRPSSCFFAASPGEPAFASWWPLQAQPLPPVGLYSPNICLTADSSGPASASLWTPQAKLPTFQQLLHTQ  
LLPPSGLSRPSSCFTRAFAGPTFVSWQPSLARFLLVSQQPRQAQVLPHTGLSTSSSCLTLASPGPTPVPGRHLRA  
QNLLKSDSLVPTAAFWWPMKAQNLLKLTSPGPAPASCQHLQAQPLPHGVFSRPTSSSWLGLQAQLLPHNSLFWPS  
SCPAHGGQCRPKTSSSQTLQAHL LLPGGMNRPSFDLRTASAGPALASQGLFPGPALASWQLPEAKFLLACQQPQQ  
AQLLPHSGPFSPNS

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**FIGURE 2232A**

GGGAAGCGCGCCGCGCACCTCATGGTTCCGGGGACAGTTAGGGCGGCGGATGGAGGTCAGCGGTGGTGCTCGCTG  
CGGTTTGAATCACTTGCTAGGAGTCTTGCTCTCTGCCACCCAGGACATCATGGCAGCTCACCTGGTAAAGCGA  
TGCACGTGCCTCCTGAGAGAAGCTGCTCGTCAGGCCCTGCCATGGCTCCAGTTGGCCGACTGAGACTTGCCCTGG  
GTAGCCCATAGACTCTGACTTCCTCAGCCACCTCACCCATTTCCACCTCCCAGGTTCCCTTGATGGAGCCGGTG  
GAGAAGGAACGAGCATCTACTCCCTACATAGAGAAGCAGGTGGACCACCTCATCAAGAAGGCCACAAGGCCAGAG  
GAGCTCCTGGAGCTACTTGGTGGCAGTCACGACTTGGACAGCAATCAAGCAGCAATGGTACTTATCCGGCTCTCT  
CACTTGCTGTCTGAGAAGCCAGAAGATAAAGGCTTGCTCATACAGGATGCCCCACTTTCATCAACTTCTCTGTCTG  
CTCAACAGTCAGATTGCCCTCGGTCTGGCATGGTACCCTCTCGAAGCTGCTGGGAAGCCTGTATGCTCTGGGCATC  
CCCAAGGCCTCCAAGGAGCTGCAGTCGGTGGAGCAGGAGGTCCGCTGGCGCATGCGGAAGCTCAAGTACAAGCAC  
CTGGCCTTCTGGCAGAGTCCCTGTGCCACCCTCTCACAGGAGCAGCACTCGCAGGAGCTGCTGGCTGAGCTGCTC  
ACACACCTGGAAGGCGTTGGACAGAAATTGAAGATTCCACACATTAGTGACCGTCATGATGAAGGTGGGACAC  
CTCTCGGAGCCACTAATGAACCGCTTGAAGACAAGCAGTCTCTGAACAGAGCGCAGGACATCACCTGCCCCAC  
CTGTGCAGCGTACTTCTGGCTTTTGC CGCTCTGAACCTCCATCCAGACCAAGAGGATCAGTTCTTCAGCCTGGTA  
CATGAGAAGCTGGGGTCAGAGCTGCCAGGCCTGGAGCCAGCCCTGCAGGTGGACCTGGTGTGGGCCCTGTGTGTG  
CTGCAGCAGGCACGGGAAGCAGAGCTGCAAGCCGCTCTCCACCCTGAATTTACATCCAATTTCTAGGGGGCAAG  
TCTCAGAAGGATCAGAACACCTTCCAGAAGCTGCTCCACATCAACGCCACTGCCCTGCTGGAGTACCCCGAGTAC  
TCGGGTCCCTTCTGCCTGCCTCGGCTGTGGCCCTGGGCCCTCAGCCCTTGACAGGAAGGTGACCCCCCTGCAA  
AAGGAGCTGCAGGAGACGCTGAAGGGGCTGCTGGGGAGCGCCGACAAGGGCAGCCTCGAGGTGGCCACGCAGTAT  
GGCTGGGTGCTGGATGCTGAGGTGCTGCTGGACAGTGACGGCGAGTTTCTGCCCGTAAGGGACTTTGTGGCACCT  
CACCTTGCCAGCCAACTGGGAGCCAGTCACCACCTCCAGGGTCTAAGAGGCTAGCGTTCTTGCGGTGGGAGTTC  
CCCAACTTCAACAGCCGAAGCAAGGACTTGCTGGGTGCTTTGTTCTGGCCCGGCGACACATAGTGGCTGCAGGC  
TTCTGATAGTGACGTCCCATTCTATGAGTGGCTGGAACCTCAAGTCTGAATGGCAGAAAGGCGCCTACCTCAAG  
GACAAGATGCGCAAAGCGGTGGCTGAGGAGCTGGCCAAGTGAATTGTGCCAGCAGCATGGACTGCGTGCCTCTCC  
GCCGAGGTCTAGCTGTGGGCGGCCAAGAAGGGTACCCTTGAGGACAAACCTCTGTGCAGGACCTTGGCCAGAG  
TGGGGAGGGTGGCCAGCCACTCTGAGGGACAGAACGTCCTCTTGTGTATAATAAACCTTTAATTTTGGTGTGGGA  
CCCCTGGGGCCTTCCCAGGCTTGGTCACCCTCTGCACTGTGAGCACTTGTCTGTCTGCTTTGTTGAGCAGGGCGT  
GGTTCTCCAGTCTGCCCTGTGCACTCCCCCGCCACGCCAGCCCAAGAGGGCTGCTTTAGGGACAGACCTGGGTT  
GTTACCTGCCTGTCTCTCCCAGCTTCTTCCCTCCATGAGTGCTTATTACATATGCCGGCCTCTTGCGTAGGGGT  
CTGTATCAGCCCCAGCAGGCAGGTGGAGTCTAGAATTCTGAACCTCCAGAGCAGAGGAGCTTCCCAGGGAAGCT  
GATTGGAGATTAGTGATGGCTGGGGGTTCTGATGGAGCTGTGGCTACTGAACCACAGCCATCCTGGGAGGCTT  
TCTCCCATCAGTTGTCTCACACTTAGCTGAGTGAAAGGCACCCTGACAGCATGTGGTGACAGGTGATGTGAGGGC  
TGGGTGAGCACTTGGGAGGCGCTGGCTCTGGGAGAGGAGAAGATCCCACTTGGCTGACACCACGGCACCAAGAGC  
CAAACCTCCATCGTTGTCTTACCACCCTGACCAGAGCCTTGTGCTGTCTATAGGAAGTGGCTGCCCAAACAGGA  
CCCTGGCAGCCTCCCTGCTGCTGCGGGGATTACCAGGTGCTGGGAGGCAACAAGCTTCTACCTTCCAGCCTCTC  
CTTAGAGACACCTATTGGCAGAACCTGACTAAATAGCAGTCAGGGAACCTGGGTTGCCTCCAGCCATACAGAACAG  
AGAGTAGGACAGTGGGGTGGAGCTGAGATGGAGAGGCCACAGCCCTCAGCACTGTAGGCTCCCAACCCTAGGCT  
GTTTCCCCAAAAAGAAAAAGTCTAGTCACTGCTCTGATGCTTGGCCACTCACCCAAGCATTGGGGTAGTTTGTGC  
TGGCTTCACTGGGCACCATCAGGCACACCCAGCCTGTAGTTTTTGTGTTTATATTACCTAAGTCGGCCAGGTGTGG  
TGGGATCAGCCTGTAATCCCAGCACTTAGGGAGGCTGGGGCGGGCGAATCGCCTGAGGCCAGGAATCAAGACC  
AACCTGGCCAACATTGTGAAACCTGTCTCTACTAAAAATATAAAAAATTAGTCGGGCATGATGACAGGCACCTGT  
AATCCAGCTACTCAGGAGGCTGAGGCAGGTGAATCACTTGAACCCGGGAGGTGGAGGCTGCAGTGAGTTAAGAT  
TGTGCCACTGCACTCCAGCCTGGGTAAACAGAGCAAGACTCTGTCTCAAAAAATATATATGTGTGTGTGTGTGT  
GTATATATATGTACATGTGTATATAAGTATATATGTGTGTATATATGTATATATACACGTATATACACACACACC  
CCTAAGTCATGATTTTGGAGCAATTGTAAGTGGTGTAGTGCTTAATTTTGGCATTACACATTGATTGTTAGCAT  
ATAGAAATGGGATTGATTTTATGTGATCTTGCTAAACTTTATGCATTTTAAAAATTCCTTTGGATTTCCTAIGT  
AGATATTTATGTCCTGAAAACAGGAATGTATTTATCCTTTCAAATCAATATGCTTTTTTATTTTGTATTATGAC  
CACTTCATTAAAAATATAATTCACATGCCATACACTTACCCTTTTAAATGTATAATTAGGCCAGGTGTGGTGGC  
TCACGTCTGTAATCCCAGCAGTTTGGGAGGCCAAGGCCCTCAGATCTTGAGCCCAGGAGTTCAAGACCACCCTGG

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**FIGURE 2232B**

GCAACAGGCAAAACCCCTGTCTCTATTTTTTAAAATACAAGAATTAGCCGCAGTGGCAGGCACCTGTCGTCCCAGC  
AACCCAGGAGGCTGAGGTAGGAGGATCACTTAAGCCTGGGAAGTCAAGCCTGCAGTGAACCATGATAGCACCCT  
GCAGTCCAGCCTGGGCGACAGAGTGAGACCCCATCTCGAAAACAAAAATGTATAATTCAGTGGTTTTTAGTCTCT  
TTGCAGATACATGCAACCATCACCACAATTTGCACATTTTCTAAGCCTCATATACTGATGTGATATTTGGTGTT  
TTGTGACTGGCTTCATTTACTTAGCATATTGTTTTCATGTTTCATTCATGTGCGCATGTATGAGTATTCATTCCTT  
TATTTGGCTGAATAATATCCATTATAGTTTGTGCCACATTTTGTTTATCCATTCATCCATTGATGGACATGTGG  
ATTGTTTCCACCTTCTGGATAATATGAACTGATACAGTTTGGATATTTTGTCCCCTCCAAATCTCATGAAATAGG  
ATCACCAGTGTTGGAGAATGGGGCCTGTTAGGAAGTGTTTGGATCATAGGAACATCTGTCATAAATGGCTTGGTG  
CCATCCTTGTAATGAGTGAGTTCTTGCTCTATATTAGTTCACTTGAAAGCTGGTTGTTGGGAACTCCTGCCCTAT  
CTGTTCTGCCCTCTCTCGTCATGTGACATGCCTGCTCCTTGTTACCTTCTGTCATGAGTAAAAGCTTCCTAAGG  
CCTTCCCAGGAGCCAAGCAGATGTCAGTACCATGCTTGTACAGCCTGCAGAACTGTGAGCCAAATAAACTTCTTT  
ATAAATT

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**FIGURE 2233**

MAAHLVKRCTCLLREAAQAPAMAPVGRRLRLAWVAHKTLTSSATSPISHLPGSLMEPVEKERASTPYIEKQVDHL  
IKKATRPEELLELLGGSHDLDNQAAMVLIRLSHLLSEKPEDKGLLIQDAHFHQLLCLLNSQIASVWHGTL SKLL  
GSLYALGIPKASKELQSVEQEVWRMRKLKYKHLAFLAESCATLSQEQHSQELLAELLTHLERRWTEIEDSHTLV  
TVMMKVGHLSPEPLMNRLDKHVLNRAQDITLPHLCSVLLAFARLNFHPDQEDQFFSLVHEKLGSELPGLEPALQV  
DLVWALCVLQQAREAELOAVLHPEFHIQFLGGKSQKDQNTFQKLLHINATALLEYPEYSGP LLPASAVAPGPSAL  
DRKVTPLQKELQETLKGLLGSADKGSLEVATQYGWVLD AEVL LDDSDGEFLPV RDFVAPHLAQPTGSQSPPPGSKR  
LAFLRWEFPNFNRSKDLLGRFVLARRHIVAAGFLIVDPFYEWLELKSEWQKGAYLKDKMRKAVAEELAK

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**FIGURE 2234**

GGCACGAGGCCCGGGTCGAGCATGTAGCGGCTGCTGGCGGCGGGGCTCCCGGGGCGGGCCGGGCGGGCCGCGGGA  
GCCGCACGCGGCGATATCGAAGAGGAGGGCAAGAAGGGCAAGAAGCCTGGAATTGTCTCGCCATTTAAACGAGTA  
TTCCTAAAAGGTGAAAAGAGTAGAGATAAGAAAGCCCATGAGAAGGTGACAGAGAGGCGCCCTCTGCACACTGTG  
GTGTTGTCAATTGCCTGAGCGCGTCGAGCCAGACAGACTGCTGAGCGACTATATTGAGAAGGAGGTAAAGTATTTA  
GGTCAGTTAACGTCCATACCAGGATACCTGAATCCCTCCAGTAGGACTGAAATCCTGCATTTTCATAGACAATGCA  
AAGAGAGCCCACCAGCTTCCGGGACACTTGACTCAGGAGCACGATGCTGTGCTCAGCCTGTCTGCGTACAACGTC  
AAGCTGGCCTGGAGGGACGGGGAGGATATCATCCTCAGGGTGCCCATCCATGACATCGCCGCCGTCTCCTATGTT  
CGGGATGACGCTGCACACCTGGTGGTCTGAAGACAGCCCAGGACCCAGGGATCTCCCCCAGCCAGAGTCTGTGT  
GCGGAAAGTTCCAGAGGCCTCAGTGCAGGCTCCCTGTGCGAGAGTGCAGTTGGGCCCCGTGGAGGCATGCTGCCTG  
GTCATCCTGGCTGCAGAGAGCAAGGTGCGTGCGGAGGAGCTTTGCTGTCTGCTAGGCCAGGTCTTCCAGTTGTT  
TACACGGAGTCCACCATCGACTTTCTGGACAGAGCGATATTTGATGGGGCCTCTACCCCGACCCACCACCTGTCC  
CTGCACAGCGATGACTCTTCTACAAAAGTGGACATTAAGGAGACCTACGAGGTGGAAGCCAGCACTTTCTGCTTC  
CCTGAATCTGTGGATGTGGGTGGTGCATCACCCACAGCAAGACCATCAGTGAGAGCGAGCTGAGCGCCAGCGCC  
ACTGAGCTGCTGCAGGACTACATGCTGACGCTGCGCACCAAGCTGTATCACAGGAGATCCAGCAGTTTGCAGCA  
CTGCTGCACGAGTACCGCAATGGGGCCTCTATCCACGAGTTCTGCATCAACCTGCGGCAGCTCTACGGGGACAGC  
CGCAAGTTTCTGCTGCTTGGTCTGAGGCCCTTCATCCCTGAGAAGGACAGCCAGCACTTCGAGAACTTCCTGGAG  
ACCATTGGCGTGAAGGATGGCCGCGGCATCATCACTGACAGCTTTGGCAGGCACCGCGGGGCCCTGAGCACCACA  
TCCAGTTCCACCACCAATGGGAACAGGGCCACGGGCAGCTCTGATGACCGGTGCGCACCCCTCAGAGGGGGATGAG  
TGGGACCGCATGATCTCGGACATCAGCAGCGACATTGAGGCGCTGGGCTGCAGCATGGACCAGGACTCAGCATGA  
TGGACAGTGGATGGGGGGGCACCCACACCTTCCGCGCAGTCGTCATAGGCCTTCCCAGAAGGAGCTGCCCAGACC  
TGCGTGTGAGCCCTTGGTGGTGGCCAGGGAGAGGCGCCCGGTGCAGATGGCCCCGGGCGGGCCAGGTCTCTACT  
GTGAAGGAGCAGGGAGCTGCCGAGGGACACGAGCCTCAGTGCGGGGTGGAAGGCTCTTTGCCCTTGTCACCAGGG  
CTCAGCCAAGCCCTGCAGTGTGTCCCGCTCGGGGAGGGCCCGGCCGAGCGGGCAGGGAGAGCCAGTCCTGTGCGG  
CTGGGCCCTTGGACGGCTGTGAGTTTTGCACATGATGTTCTATTGTAACCTCTCAGAGACCTTAAAAAGAAGTTT  
ACTGCAATGTGAATAATTTAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2235**

MEEEGKKGKKPGIVSPFKRVFLKGEKSRDKKAHEKVTERRPLHTVVLSLPERVEPDRLLSDYIEKEVKYLGQLTS  
IPGYLNPSSRTEILHFIDNAKRAHQLPGHLTQEHDVLSLSAYNVKLAWRDGEDIIILRVPIHDIAAVSYVRDDAA  
HLVVLKTAQDPGISPSQSLCAESSRGLSAGSLSES AVGPVEACCLVILAAESKVAAEELCCLLGQVFQVYTEST  
IDFLDRAIFDGASTPTHHLSLHSDDSSTKV DIKETYEVEASTFCFPESVDVGGASPHSKTISESELSASATELLQ  
DYMLTLRTKLSSQEIQQFAALLHEYRNGASIHEFCINLRQLYGDSRKFLLLGLRPFIPKDSQHFENFLETIGVK  
DGRGIITDSFGRHRRALSTTSSTTNGNRATGSSDDRSAPSEGDEWDRMISDISSDIEALGCSMDQDSA



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**FIGURE 2236**

TGGGGTTCTGAACCAGCAAGACAAGCGGGCATTGGCCACAGCAGCGGAGGCGGGCACGGGGTATTGTCCGGCTCC  
GGCGGGCGGCGGTTCGGTGCTGCGAGAGCGGCGGCGGCGGCGGTCGGCAGCGGGAGGGCGCGGCGCCGAGCGGA  
GGCGGAGTCGGCGCCGAGAACAATGGCTGGAGGCCAAAGCTGGAAAGGACAGTGGGAAGGCCAAGGCTAAGGCAGTA  
TCTCGCTCACAGAGAGCTGGGCTACAGTTTCCTGTGGGCGCATCCACAGACACTTGAAGACTCGCACCACAAGC  
CATGGAAGGGTGGGTGCCACTGCTGCCGTGTACAGTGCTGCGATTCTGGAGTACCTCACTGCAGAGGTGCTGGAG  
CTGGCAGGTAATGCTTCTAAGGATCTCAAAGTAAAGCGTATCACTCCGCGTCACTTGCAGCTTGCAATCCGTGGT  
GATGAAGAGTTGGATTCTCTTATCAAGGCTACCATAGCTGGGGGTGGTGTGATCCCTCACATCCACAAATCTCTG  
ATTGGAAGAAGGGACAGCAGAAAACCTGCTTAGAGGGATGCTTTAACCAACCCTCTTCTCCCGTCATTGTACT  
GTAACCTGGGACAGAAGAAATAATGGGGATATGTGGAATTTTTAACAACAGTTAAATGGAAAAGCATAGACAATTA  
CTGTAGACATGATAAAAGAAACATTTGTATGTTCTTAGACTCGAAGTTTGATAAAAGTACCTTTTCATGTGGTGA  
CAGTTGTGTGTTGATTGGCTAGGTTTCTCCCGTGTGTTTTATACAAAATGGAATTGATAAACCATTTTTTACAA  
AATTAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2237**

MAGGKAGKDSGKAKAKAVSRSQRAGLQFPVGRIHRHLKTRTTSHGRVGATAAVYSAAILEYLTAEVLELAGNASK  
DLKVKRITPRHLQLAIRGDEELDSLKATIAGGGVIPHIHKSLIGKKGQOKTA

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**FIGURE 2238**

GTTTTGCAGACGCCACCGCCGAGGAAAACCGTGTACTATTAGCCATGGTCAACCCACCGTGTCTTCGACATTG  
CCGTCGACGGCGAGCCCTTGGGCCGCGTCTCCTTTGAGCTGTTTGCAGACAAGGTCCCAAAGACAGCAGAAAATT  
TTCGTGCTCTGAGCACTGGAGAGAAAGGATTTGGTTATAAGGGTTCCTGCTTTCACAGAATTATCCAGGGTTTA  
TGTGTCAGGGTGGTGACTTCACACGCCATAATGGCACTGGTGGCAAGTCCATCTATGGGGAGAAAATTTGAAGATG  
AGAACTTCATCCTAAAGCATACGGGTCCTGGCATCTTGTCCATGGCAAATGCTGGACCCAAACACAAATGGTTCCC  
AGTTTTTCATCTGCACTGCCAAGACTGAGTGGTTGGATGGCAAGCATGTGGTGTTTGGCAAAGTGAAAGAAGGCA  
TGAATATTGTGGAGGCCATGGAGCGCTTTGGGTCCAGGAATGGCAAGACCAGCAAGAAGATCACCATTGCTGACT  
GTGGACAACTCGAATAAGTTTGACTTGTGTTTTATCTTAACCACCAGATCATTCCCTTCTGTAGCTCAGGAGAGCA  
CCCCTCCACCCCATTTGCTCGCAGTATCCTAGAATCTTTGTGCTCTCGCTGCAGTTCCTTTGGGTTCCATGTTT  
TCCTTGTTCCCTCCCATGCCCTAGCTGGATTGCAGAGTTAAGTTTATGATTATGAAATAAAAACTAAATAACAATT  
GTC

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**FIGURE 2239**

MVNPTVFFDIAVDGEPLGRVSFELFADKVPKTAENFRALSTGEKGFYKGS CFHRIIPGFMCQGGDFTRHNGTGG  
KSIYGEKFEDENFILKHTGPGILSMANAGPNTNGSQFFICTAKTEWLDGKHVVFGKVKEGMNIVEAMERFGSRNG  
KTSKKITIADCGQLE

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**FIGURE 2240A**

GCAGTTGTGAAAACTTCAGGACAAAAATGTTTCATTTAAGGACTTGTGCTGCTAAGTTGAGGCCATTGACGGCT  
TCCCAGACTGTAAAGACATTTTCACAAAACAGACCAGCAGCAGCTAGGACATTTCAACAGATTGCGGTGCTATTCT  
GCACCTGTTGCTGCTGAGCCCTTTCTCAGTGGGACTAGTTCGAACATATGTGGAGGAGATGTACTGTGCTTGGCTG  
GAAAACCCCAAAAGTGACATAAGTCATGGGACATTTTTTTTTCGCAACACGAATGCCGGAGCCCCACCGGGCACT  
GCCTACCAGAGTCCCCTTCCCCTGAGCCGAGGCTCCCCTGGCTGCTGTGGCCCATGCACAGTCCCCTGGTAGAAGCA  
CAGCCCAACGTGGACAAGCTCGTGGAGGACCACCTGGCAGTGCAGTCGCTCATCAGGGCATATCAGATACGAGGG  
CACCATGTAGCACAGCTGGACCCCTGGGGATTTTGGATGCTGATCTGGACTCCTCCGTGCCCCGTGACATTATC  
TCATCCACAGACAACTTGGGTTCTATGGCCTGGATGAGTCTGACCTCGACAAGGTCTTCCACTTGCCCACCACC  
ACTTTCATCGGGGGACAGGAATCAGCACTTCCCTGCGGGAGATCATCCGTGCGCTGGAGATGGCCTACTGCCAG  
CATATTGGGGTGGAGTTTATGTTTCAATGACCTGGAGCAGTGCCAGTGGATCCGGCAGAAGTTTGAGACCCCT  
GGGATCATGCAGTTCACAAATGAGGAGAAACGGACCCTGCTGGCCAGGCTTGTGCGGTCCACCAGTTTGAGGAG  
TTCCTACAGCGGAAGTGGTCCCTCTGAGAAGCGCTTGTGCTAGAAAGGCTGCGAGGTACTGATCCCTGCCCTCAAG  
ACCATCATTGACAAGTCTAGTGAGAATGGCGTGGACTACGTGATCATGGGCATGCCACACAGAGGGCGGCTGAAC  
GTGCTTGCAAATGTATCAGGAAGGAGCTGGAACAGATCTTCTGTCAATTGATTCAAAGCTGGAGGCAGCTGAT  
GAGGGCTCCGGAGATGTGAAGTACCACCTGGGCATGTATACCGCAGGATCAATCGTGTACCGACAGGAACATT  
ACCTTGTCCTTGGTGGCCAACCCCTTCCCACCTTGAGGCCGCTGACCCCGTGGTGTATGGGCAAGACCAAAGCCGAA  
CAGTTTTACTGTGGCGACACTGAAGGGAAAAAGTTCATGTCCATCCTGTTGCATGGGGATGCTGCATTTGCTGGC  
CAGGGCATTGTGTACGAGACCTTCCACCTCAGCGACCTGCCATCCTACACAACATCATGGCACCGTGCACGTGGTC  
GTCAACAACCAGATCGGCTTACCACCGACCCTCGGATGGCCCGCTCCTCCCCCTACCCCACTGACGTGGCCCGA  
GTGGTGAATGCCCCATTTTCCACGTGAACCTCAGATGACCCGAGGCTGTATGTACGTGTGCAAAGTGGCGGCC  
GAGTGGAGGAGCACCTTCCACAAGGACGTGGTTGTGCGATTTGGTGTGTTACCGGCGCAACGGCCACAACGAGATG  
GATGAGCCCATGTTACGCAGCCGCTCATGTACAAGCAGATCCGCAAGCAGAAGCCTGTGTTACAGAAGTACGCT  
GAGCTGCTGGTGTGCGAGGGTGTGGTCAACCAGCCTGAGTATGAGGAGGAAATTTCAAAGTATGATAAGATCTGT  
GAGGAAGCTTTTGCCAGATCTAAAGATGAGAAGATCTTGACATTAAGCACTGGCTGGACTCTCCCTGGCCTGGC  
TTCTTACCCTGGACGGGCAGCCCAGGAGCATGTCTGCCCCCTCCACGGGTCTGACGGAGGATATTCTGACACAC  
ATCGGGAATGTGGCTAGTTCTGTGCTGTGGAAAACCTTACTATTTCATGGAGGGCTGAGCCGGATCTTGAAGACT  
CGTGGGGAAATGGTGAAGAACCGGACTGTGGACTGGGCTCTAGCGGAGTACATGGCGTTTGGCTCGCTCCTGAAG  
GAGGGCATCCACATTCGGCTGAGCGGCCAGGACGTGGAGCGGGGCACATTCAGCCACCGCCACCATGTGCTCCAT  
GACCAGAATGTGGACAAGAGAACCTGCATCCCCATGAACCATCTCTGGCCCAATCAGGCCCCCTATACTGTGTGC  
AACAGCTCACTGTCTGAGTACGGCGTGTGGGCTTTGAGCTGGGCTTTCGCCATGGCCAGTCCCTAATGCCCTGGTC  
CTCTGGGAAGCCCAATTTGGTGACTTCCACAACACGGCCAGTGTATCATCGACCAGTTCATCTGCCGGGACAA  
GCCAAGTGGGTGCGGCAGAATGGCATCGTGTGCTGCTGCCCATGGCATGGAGGGCATGGGTCCAGAACATTCC  
TCCGCCCCGCCAGAGCGGTTCTTGCAGATGTGCAACGATGACCCAGATGTCTGCCAGACCTTAAAGAAGCCAAC  
TTCGACATCAATCAGCTATATGACTGCAATTGGGTTGTTGTCAACTGCTCCACTCCTGGCAACTTCTTCCACGTG  
CTACGACGCCAGATCCTGCTGCCATTCCGGAAGCCGTTAATTATCTTACCCCCAAATCCCTGTTGCGCCACCCC  
GAGGCCAGATCCAGCTTTGATGAGATGCTTCCAGGAACCCACTTCCAGCGGGTGATCCCAGAAGATGGCCCTGCA  
GCTCAGAACCAGAAAATGTCAAAAGGCTTCTTCTTGACCGGCAAAGTGTATTATGACCTCACCCGGGAGCGC  
AAAGCACGCGACATGGTGGGGCAGGTGGCCATACAAGGATTGAGCAGCTGTGCGCATTCCTTTGACCTCCTG  
CTGAAGGAGGTGAGAAGTACCCCAATGCTGAGCTGGCCTGGTGCCAGGAGGAGCACAAGAACCAAGGCTACTAT  
GACTACGTGAAGCCAAGACTTCGGACCACCATCAGCCGCGCCAAGCCCGTCTGGTATGCCGGCCGGGACCCAGCG  
GCTGCTCCAGCCACCGGCAACAAGAAGACCCACCTGACGGAGCTGCAGCGCCTCCTGGACACGGCCTTCGACCTG  
GACGTCTTCAAGAACTTCTCGTAGATGCTGCCTAGGGTTGCTTGGGCCACTGCCCTCTCCACACCCATGACTGCC  
CCTTGCTTCTCAACTAAAGAATAGTGCTCAGCGCTGCCACACCACCGCCCTCCTCGCTGTGCCACCACCCCTC  
CCTCTGCTCTCATAGGAGTTAGGCTGTCGTCCCCCTCCAGTGTGGCTGCCCCACAGGCCACACGCTGCCAGG  
CTCTGCTGACTTCTGAGCAGTTTCCAGGAGGCCGGGGGAGCAGGAGGAGGAAAGGTAGCCCCCGAGGGATGTC  
CTTGGGGAGGGGTGAGCTCTGGCCACAATCCTCCCCACAGTCTCACCCACTAGGATAGGAACTGGGCCCTTGTGT  
GCTGGCTTCCGCTGTACCCAGCAAGGCACAGGCTCCTGTATTTGAGACTAGGATAGCTTCATCTTGAGCCTGAG  
CCTTAGAATCTGTAGAGGAGCCTGGAGTCGGATCTAGCCATGGCTGGCAGAGGTTTCTAGGGTGGCCCCAGCCG

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**FIGURE 2240B**

TGGCGTGAAGTGAAGATGACCCGGGGCAGCTGGCAGGAGAGAGCCTTGGCCTGACCTGGCACAGAAAGGGCAGCT  
TCAGTCTCTGCAGTGTCCATTATCTGCTGTTCTTCGAGGGTTCCAGGCTGTGTGTGGGGCCCAAGCATGCCCCA  
CCCACCCCTCCTGGGGCCAGGCAGCACCTGGAGCCACAGAGTCTGTGTGTAGCCAGGAAGCCCCGCTCAGGTAG  
CCACCACCGGGGCACTGGCTGCTCTGTCTTGGTCCTGTAAACCCTCCACCTCCTCTCTTGGACTCCCTCCCCACC  
CCAACCACTCTTTCTTTCTCCTTTAACCCAATGGAGACTTTCTGATGCATCGTTTTCTTTGCTGTGCCAAAGCAG  
GTCAGAAGAGGGAGAGGAGGGGCTGGGGGTGAGGGGCCAGGCCATGGCCAAGGGGCCAGCTGCCCCCTCATTATC  
ACTCTGACCTTCACAGGGACAGATCTGATTTATTTATTTTGGTT

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**FIGURE 2241**

MFHLRTCAAKLRPLTASQTVKTFSONRPAAARTFQQIRCYSAPVAAEPFLSGTSSNYVEEMYCAWLENPKSVHKS  
WDIFFRNTNAGAPPGTAYQSPLPLSRGSLAAVAHAQSLVEAQPNVDKLVEDHLAVQSLIRAYQIRGHHVAQLDPL  
GILDADLDSSVPADIISSTDKLGFGYGLDESOLDKVFHLP TTTFFIGGQESALPLREIIRRLEMAYCQHIGVEFMFI  
NDLEQCQWIRQKFETPGIMQFTNEEKRTLLARLVRSTRFEEFLQRKWSSEKRFGLGCEVLIPALKTIIDKSSSEN  
GVYDVIMGMPHRGRLNVLANVIRKELEQIFCQFDSKLEAADEGSGDVKYHLGMYHRRINRVTDNRNITLSLVANPS  
HLEAADPVVMGKTKAEQFYCGDTEGKKVMSILLHGDAAFAGQGIVYETFHLSDLPSYTHGTVHVNNQIGFTT  
DPRMARSSPYPTDVARVVNAPIFHVNSDDPEAVMYVCKVAAEWRSTFHKDVVVDLVCYRRNGHNEMDEPMFTQPL  
MYKQIRKQKPV LQKYAELLVSQGVVNQPEYEEIISKYDKICEEAFARSKDEKILHIKHWLDSPWPGFFTLDGQPR  
SMSCPSTGLTEDILTHIGNVASSVPVENFTIHGGLSRILKTRGEMVKNRTVDWALAEYMAFGSLLKEGIHIRLSG  
QDVERGTFSHRHHVLHDQNVDKRTCIPMNLWPNQAPYTVCNSSLSEYGVLGFEFGFAMASPNALVLWEAQFGDF  
HNTAQCIIDQFICPGQAKWVRONGIVLLLPHGMEGMGPEHSSARPERFLQMCNDDPDVLPDLKEANFDINQLYDC  
NWVVVNCSTPGNFFHVLRRQILLEFRKPLIIFTPKSLLRHPEARSSFDEMLPGTHFORVIPEDGPAAQNPENVKR  
LLFCTGKVYYDLTRERKARDMVGQVAITRIEQLSPFPFDLLLKEVQKYPNAELAWCQEEHKNQGYDYVKPRLRT  
TISRKPVWYAGRDPAAAPATGNKKTHLTELRLLDTAFDLDVFNFS

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**FIGURE 2242**

GCTGCTCCCGCTCGCGTCGGTGGCGTTTTTCCTGCAGCGCGTGCGTGCTGCGCTACTGAGCAGCGCCATGGAGGA  
CTCTGAAGCACTGGGCTTCGAACACATGGGCCTCGATCCCCGGCTCCTTCAGGCTGTCACCGATCTGGGCTGGTC  
GCGACCTACGCTGATCCAGGAGAAGGCCATCCCCTGGCCCTAGAAGGGAAGGACCTCCTGGCTCGGGCCCCGCAC  
GGGCTCCGGGAAGACGGCCGCTTATGCTATTCCGATGCTGCAGCTGTTGCTCCATAGGAAGGCGACAGGTCCGGT  
GGTAGAACAGGCAGTGAGAGGCCTTGTTCTTGTTCCCTACCAAGGAGCTGGCACGGCAAGCACAGTCCATGATTCA  
GCAGCTGGCTACCTACTGTGCTCGGGATGTCCGAGTGGCCAATGTCTCAGCTGCTGAAGACTCAGTCTCTCAGAG  
AGCTGTGCTGATGGAGAAGCCAGATGTGGTAGTAGGGACCCCATCTCGCATATTAAGCCACTTGCAGCAAGACAG  
CCTGAAACTTCGTGACTCCCTGGAGCTTTTGGTGGTGGATGAAGCTGACCTTCTTTTTTCCTTTGGCTTTGAAGA  
AGAGCTCAAGAGTCTCCTCTGTCACTTGCCCCGGATTTACCAGGCTTTTCTCATGTCAGCTACTTTTAACGAGGA  
CGTACAAGCACTCAAGGAGCTGATATTACATAACCCGGTTACCCTTAAGTTACAGGAGTCCCAGCTGCCTGGGCC  
AGACCAGTTACAGCAGTTTCAGGTGGTCTGTGAGACTGAGGAAGACAAATTCCTCCTGCTGTATGCCCTGCTCAA  
GCTGTCTATTGATTCGGGGCAAGTCTCTGCTCTTTGTCAACACTCTAGAACGGAGTTACCGGCTACGCCTGTTCTT  
GGAACAGTTCAGCATCCCCACCTGTGTGCTCAATGGAGAGCTTCCACTGCGCTCCAGGTGCCACATCATCTCACA  
GTTCAACCAAGGCTTCTACGACTGTGTCTATAGCAACTGATGCTGAAGTCCTGGGGGCCCCAGTCAAGGGCAAGCG  
TCGGGGCCGAGGGCCCCAAGGGGACAAGGCCTCTGATCCGGAAGCAGGTGTGGCCCCGGGGCATAGACTTCCACCA  
TGTGTCTGCTGTGCTCAACTTTGATCTTCCCCCAACCCCTGAGGCCTACATCCATCGAGCTGGCAGGACAGCACG  
CGCTAACAACCCAGGCATAGTCTTAACCTTTGTGCTTCCCACGGAGCAGTTCCACTTAGGCAAGATTGAGGAGCT  
TCTCAGTGGAGAGAACAGGGGCCCCATTCTGCTCCCCTACCAGTTCCGGATGGAGGAGATCGAGGGCTTCCGCTA  
TCGCTGCAGGGATGCCATGCGCTCAGTGAATAAGCAGGCCATTCCGGAGGCAAGATTGAAGGAGATCAAGGAAGA  
GCTTCTGCATTCTGAGAAGCTTAAGACATACTTTGAAGACAACCCTAGGGACCTCCAGCTGCTGCGGCATGACCT  
ACCTTTGCACCCCGCAGTGGTGAAGCCCCACCTGGGCCATGTTCTGACTACCTGGTTCTCCTGCTCTCCGTGG  
CCTGGTACGCCCTCACAAGAAGCGGAAGAAGCTGTCTTCTCTTGTAGGAAGGCCAAGAGAGCAAAGTCCCAGAA  
CCCCTGCGCAGCTTCAAGCACAAAGGAAAGAAATTCAGACCCACAGCCAAGCCCTCCTTGAGGGTTGTTGGGCCCTC  
TCTGGAGCTGAGCACATTGTGGAGCACAGGCTTACACCCTTCGTGGACAGGCGAGGCTCTGGTGCTTACTGCACA  
GCCTGAACAGACAGTTCTGGGGCCGGCAGTGCTGGGCCCTTTAGCTCCTTGGCACTTCCAAGCTGGCATCTTGCC  
CCTTGACAACAGAATAAAAAATTTAGCTGCCCCAAAAAAAAAAAAAAAAAAAAA



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**FIGURE 2243**

MEDSEALGFEHMGLDPRLLQAVTDLGWSRPTLIQEKAIPLALEGKDLLARARTGSGKTAAYAIPMLQLLLHRKAT  
GPVVEQAVRGLVLVPTKELARQAQSMIQQLATYCARDVRVANVSAAEDSVSQRAVLMEKPDVVVGTPSRILSHLQ  
QDSLKL RDSLELLVDEADLLFSFGFEEELKSLLCHLPRIYQAF LMSATFNEDVQALKE LILHNPVTLKLQESQL  
PGPDQLQQFQVVCETEEDKFLLLYALLKLSLIRGKSLLFVNTLERSYRLRLFLEQFSIPTCVLNGELPLRSRCHI  
ISQFNQGFYDCVIATDAEVLGAPVKGKRRGRGPKGDKASDPEAGVARGIDFHHVSAVLNFDLPPTPEAYIHRAGR  
TARANNPGIVLTFVLPTEQFHLGKIEELLSGENRGPIILLPYQFRMEEIEGFRYRCRDAMRSVTKQAIREARLKEI  
KEELLHSEK LKTYFEDNPRDLQLLRHDLPLHPAVVKPHLGHVDPDYLVPPALRGLVRPHKKRKKLSSSCRKAKRAK  
SQNPLRSFKHKGKKFRPTAKPS

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**FIGURE 2244**

TCTTCCTCGGCGCTGCCTACGGAGGTGGCAGCCATCTCCTCCTCGGCATCATGGCCGCCCTCAGACCCCTTGTGA  
AGCCCAAGATCGTCAAAAAGAGAACCAAGAAGTTCATCCAGCACCAGTCAGACCAATATGTCAAAATTAAGCGTA  
ACTGGCGGAAACCCAGAGGCACTGACAACAGGGTTCGTAGAAGATTCAAGGGCCAGATCTTGATGCCCAACATTG  
GTTATGGGAGCAACAAAAAACAAGCACATGCTGCCCAGTGGCTTCCGGAAGTTCCTGGTCCACAACATCAAGG  
AGCTGGAAGTGCTGCTGATGTGCAACAAATCTTACTGTGCCGAGATCGCTCACAATGTTTCCTCCAAGAACCGCA  
AAGCCATCGTGGAACAGCTGCCCAACTGGCCATCAGAGTCACCAACCCCAATGCCAGGCTGCGCAGCGAAGAAA  
ATGAGTAGACAGCTCGTGTGCACGTTTTCTGTTTAAATAAATGTAAAACTGC

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**FIGURE 2245**

GCTGCTCCCTGAGAACGGGTCCCGCAGCTGGGCAGGCGGGCGGCCTGAGGGCGCGGAGCCATGAAGCTGTACAGC  
CTCAGCGTCCTCTACAAAGGCGAGGCCAAGGTGGTGCTGCTCAAAGCCGCATACGATGTGTCTTCCTTCAGCTTT  
TTCCAGAGATCCAGCGTTCAGGAATTCATGACCTTCACGAGTCAACTGATTGTGGAGCGCTCATCGAAAGGCACT  
AGAGCTTCTGTCAAAGAACAAGACTATCTGTGCCACGTCTACGTCCGGAATGATAGTCTTGCAGGTGTGGTCATT  
GCTGACAATGAATACCCATCCCGGGTGGCCTTTACCTTGCTGGAGAAGGTACTAGATGAATTCTCCAAGCAAGTC  
GACAGGATAGACTGGCCAGTAGGATCCCCTGCTACAATCCATTACCCAGCCCCTGGATGGTCACCTCAGTAGATAC  
CAGAACCCACGAGAAGCTGATCCCATGACTAAAGTGCAGGCCGAACTAGATGAGACCAAAATCATTCTGCACAAC  
ACCATGGAGTCTCTGTTAGAGCGAGGTGAGAAGCTAGATGACTTGGTGTCCAAATCCGAGGTGCTGGGAACACAG  
TCTAAAGCCTTCTATAAAACTGCCCGGAAACAAAACCTCATGCTGTGCCATCATGTGATGCAGCCTGCCAGAGGCC  
CAATGCTGGAATGGCACCATCATTACATCAGAACTGCAGCCCCCTGGAAAAGAAGAGACA

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**FIGURE 2246**

CGGGATGCGGCGCGCCGCGGCTTGAACCTCCTTGGCCTGGGCGAAGCTGTGTGGACCAAGCAAGTCAGGAGTGTG  
GCCATGTTTTTCTGAGCAGGCTGCCCAGAGGGCCCCACACTCTACTGTCCCCACCATCAGCCAACAATGCCACCTTT  
GCCCCGGGTGCCAGTGGCAACCTACACCAACTCCTCACAAACCCTTCCGGCTAGGAGAGCGCAGCTTTAGCCGGCAG  
TATGCCCACATTTATGCCACCCGCCTCATCCAAATGAGACCCTTCCTGGAGAACCAGGGCCCCAGCAGCACTGGGGC  
AGTGGAGTGGGAGTGAAGAAGCTGTGTGAACTGCAGCCTGAGGAGAAGTGCTGTGTGGTGGGCACTCTGTTCAAG  
GCCATGCCGCTGCAGCCCTCCATCCTGCGGGAGGTGAGCGAGGAGCACAACCTGCTCCCCCAGCCTCCTCGGAGT  
AAATACATACACCCAGATGACGAGCTGGTCTTGGAAGATGAACTGCAGCGTATCAAATAAAAGGCACCATTGAC  
GTGTCAAAGCTGGTTACGGGGACTGTCTGGCTGTGTTTGGCTCCGTGAGAGACGACGGGAAGTTTCTGGTGGAG  
GACTATTGCTTTGCTGACCTTGCTCCCCAGAAGCCCGCACCCCCACTTGACACAGATAGGTTTGTGCTACTGGTG  
TCCGGCCTGGGCCTGGGTGGCGGTGGAGGCGAGAGCCTGCTGGGCACCCAGCTGCTGGTGGATGTGGTGACGGGG  
CAGCTTGGGGACGAAGGGGAGCAGTGCAGCGCCGCCACGTCTCCCGGGTTATCCTCGCTGGCAACCTCCTCAGC  
CACAGCACCCAGAGCAGGGATTCTATCAATAAGGCCAAATACCTCACCAAGAAAACCCAGGCAGCCAGCGTGGAG  
GCTGTTAAGATGCTGGATGAGATCCTCCTGCAGCTGAGCGCCTCAGTGCCCGTGGACGTGATGCCAGGCGAGTTT  
GATCCCACCAATTACACGCTCCCCCAGCAGCCCCCTCCACCCCTGCATGTTCCCGCTGGCCACTGCCTACTCCACG  
CTCCAGCTGGTACCAACCCCTACCAGGCCACCATTGATGGAGTCAGATTTTTTGGGGACATCAGGACAGAACGTG  
AGTGACATTTTCCGATACAGCAGCATGGAGGATCACTTGGAGATCCTGGAGTGGACCCTGCGGGTCCGTACATC  
AGCCCCACAGCCCCGGACACTCTAGGTTGTTACCCCTTCTACAAAACCTGACCCGTTTCATCTCCCAGAGTGCCCG  
CATGTCTACTTTTGTGGCAACACCCCCAGCTTTGGCTCCAAAATCATCCGAGGTCTGAGGACCAGACAGTGCTG  
TTGGTGACTGTCCCTGACTTCAGTGCCACGCAGACCGCCTGCCTTGTGAACCTGCGCAGCCTGGCCTGCCAGCCC  
ATCAGCTTCTCGGGCTTCGGGGCAGAGGACGATGACCTGGGAGGCCTGGGGCTGGGCCCCTGACTCAAAAAAGTG  
GTTTTGACCAGAGAGGCCCCAGATGGAGGCTGTTTCATTCCTGCAGTGTGCGCATTGTAAATAAAGCCTGGCACTT  
GCTGATGCG

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**FIGURE 2247**

MFSEQAAQRAHTLLSPFSANNATFARVPVATYTNSSQPFRLGERSFSRQYAHYATRLIQMRPFLENRAQQHWGS  
GVGVKKLCELPPEEKCCVVGTLFKAMPLQPSILREVSEHNLLQPPRSKYIHPDDELVLEDELQRIKLKGTIDV  
SKLVTGTVLAVFGSVRDDGKFLVEDYCFADLAPQKPAPPLDTRFVLLVSGGLGGLGGGGESLLGTQLLVVVVTGQ  
LGDEGEQCSAAHVSRVILAGNLLSHSTQSRDSINKAKYLTKKTQAASVEAVKMLDEILLQLSASVPVDVMPGEFD  
PTNYTLPQQPLHPCMFPLATAYSTLQLVTNPYQATIDGVRFLGTSGQNVSDIFRYSSMEDHLEILEWTLRVRHIS  
PTAPDTLGCYPFYKTDPFIFPECPHVYFCGNTPSFGSKIIRGPEDQTVLLVTVPDFSATQTACLVNLRSLACQPI  
SFSGFGAEDDDLGGGLGLGP

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**FIGURE 2248A**

TCCCTCGCTCACCCCATCCTCTCTCCCGCCCCTTCCTGGATTCCCTCACCCGTCTCGATCCCTCTCCGCCCTTT  
CCCAGAGACCCAGAGCCCCTGACCCCCGCGCCCTCCCCGGAGCCCCCGCGCGTGCCGCGGCCATGGCGGCCGT  
GCGCGGGGCGCCCCCTGCTCAGCTGCCTCCTGGCGTTGCTGGCCCTGTGCCCTGGAGGGCGCCCGCAGACGGTGCT  
GACCGACGACGAGATCGAGGAGTTCTCTGAGGGCTTCCTGTGAGAGCTAGAACCTGAGCCCCGGGAGGACGACGT  
GGAGGCCCCGCGCCTCCCGAGCCCACCCCGCGGGTCCGAAAAGCCAGGCGGGGGCAAGCCAGGGAAGCGGCC  
AGGGACGGCCGAGAAAGTGCTCCGGAAGACCAAGACAAAGGGAAGAAAGGCAAGAAAGACAAAGGCCCCAA  
GGTGCCCAAGGAGTCCTTGGAGGGGTCCCCAGGCCGCCCAAGAAGGGGAAGGAGAAGCCACCAAGGCCACCAA  
GAAGCCCAAGGAGAAGCCACCTAAGGCCACCAAGAAGGCCCAAGGAGAAGCCACCAAGGCCACCAAGAAGGCCAA  
AGAGAAGCCACCAAGGCCACCAAGAAGCCCCCGTCAGGGAAGAGGGCCCCCATTCTGGCTCCCTCAGAAACCCT  
GGAGTGGCCACTGCCCCACCCCCCAGCCCTGGCCCCGAGGAGCTACCCAGGAGGGAGGGGCGCCCTCTCAA  
TAACTGGCAGAATCCAGGAGAGGAGACCCATGTGGAGGCACGGGAGCACCAGCCTGAGCCGGAGGAGGAGACCGA  
GCAACCCACACTGGACTACAATGACCAGATCGAGAGGGAGGACTATGAGGACTTTGAGTACATTGCGCGCCAGAA  
GCAACCCAGGCCACCCCCAAGCAGAAGGAGGAGGCCCGAGCGGTCTGGCCAGAGCCCCCTGAGGAGAAGGCCCC  
GGCCCCAGCCCCGGAGGAGAGGATTGAGCCTCCTGTGAAGCCTCTGCTGCCCCGCTGCCCCCTGACTATGGTGA  
TGTTTACGTGATCCCCAACTACGATGACATGGACTATTACTTTGGGCCTCCTCCGCCCCAGAAGCCCGATGCTGA  
GCGCCAGACAGACGAAGAGAAGGAGGAGCTGAAGAAACCCAAAAGGAGGACAGCAGCCCCAAGGAGGAGACCGA  
CAAGTGGGCACTGGAGAAGGGCAAGGACCACAAAGAGCCCCGAAAGGGCGAGGAGTTGGAGGAGGAGTGGACGCC  
TACGGAGAAAGTCAAGTGTCCCCCATTGGGATGGAGTCACACCGTATTGAGGACAACCAGATCCGAGCCTCCTC  
CATGCTGCGCCACGGCCTGGGGGCACAGCGCGGCCGGCTCAACATGCAGACCGGTGCCACTGAGGACGACTACTA  
TGATGGTGCCTGGTGTGCCGAGGACGATGCCAGGACCCAGTGGATAGAGGTGGACACCAGGAGGACTACCCGGTT  
CACAGGCGTCATACCCAGGGCAGAGACTCCAGCATCCATGACGATTTTGTGACCACCTTCTTCGTGGGCTTCAG  
CAATGACAGCCAGACATGGGTGATGTACACCAACGGCTATGAGGAAATGACCTTTTCATGGGAACGTGGACAAGGA  
CACACCCGTGCTGAGTGAGCTCCAGAGCCGGTGGTGGCTCGTTTCATCCGCATCTACCCACTCACCTGGAATGG  
CAGCCTGTGCATGCGCCTGGAGGTGCTGGGGTGTCTGTGGCCCCCTGTCTACAGCTACTACGCACAGAATGAGGT  
GGTGGCCACCGATGACCTGGATTTCCGGCACACAGCTACAAGGACATGCGCCAGCTCATGAAGGTGGTGAACGA  
GGAGTGCCCCACCATCACCCGCACTTACAGCCTGGGCAAGAGCTCACGAGGCCTCAAGATCTATGCCATGGAGAT  
CTCAGACAACCCTGGGGAGCATGAACTGGGGAGCCCCGAGTTCCGCTACACTGCTGGGATCCATGGCAACGAGGT  
GCTGGGCCGAGAGCTGTTGCTGCTGCTCATGCAGTACCTGTGCCGAGAGTACCGCGATGGGAACCCACGTGTGCG  
CAGCCTGGTGCAGGACACACGCATCCACCTGGTGGCTCACTGAACCCTGATGGCTACGAGGTGGCAGCGCAGAT  
GGGCTCAGAGTTTGGGAAGTGGGCGCTGGGACTGTGGACTGAGGAGGGCTTTGACATCTTTGAAGATTTCCCGGA  
TCTCAACTCTGTGCTCTGGGGAGCTGAGGAGAGGAAATGGGTCCCCTACCGGGTCCCCAACAATAACTTGCCAT  
CCCTGAACGCTACCTTTCGCCAGATGCCACGGTATCCACGGAGGTCCGGGCCATCATTGCCTGGATGGAGAAGAA  
CCCCCTCGTGCTGGGAGCAAATCTGAACGGCGGCGAGCGGCTAGTATCTACCCCTACGATATGGCCCCGACGCC  
TACCCAGGAGCAGCTGCTGGCCGAGCCATGGCAGCAGCCCCGGGGGAGGATGAGGACGAGGTCTCCGAGGCCCA  
GGAGACTCCAGACCACGCCATCTTCCGGTGGCTTGCCATCTCCTTCGCTCCGCACACCTCACCTTGACCGAGCC  
CTACCGCGGAGGCTGCCAAGCCCAGGACTACACCGCGGCATGGGCATCGTCAACGGGGCCAAGTGGAAACCCCCG  
GACCGGGACTATCAATGACTTCAGTTACCTGCATACCAACTGCCTGGAGCTCTCCTTCTACCTGGGCTGTGACAA  
GTTCCCTCATGAGAGTGAGCTGCCCCGCGAGTGGGAGAACAACAAGGAGGCGCTGCTCACCTTCATGGAGCAGGT  
GCACCGCGGCATTAAGGGGGTGGTGACGGACGAGCAAGGCATCCCCATTGCCAACGCCACCATCTCTGTGAGTGG  
CATTAAATCACGGCGTGAAGACAGCCAGTGGTGGTGATTACTGGCGAATCTTGAACCCGGGTGAGTACCGCGTGAC  
AGCCACGCGGAGGGCTACACCCGAGCGCCAAGACCTGCAATGTTGACTATGACATCGGGGCCACTCAGTGCAA  
CTTCATCCTGGCTCGTCCAACCTGGAAGCGCATCCGGGAGATCATGGCCATGAACGGGAACCGGCCTATCCCACA  
CATAGACCCATCGCGCCCTATGACCCCCAACAGCGACGCTGCAGCAGCGACGCTACAACACCGCCTGCGGCT  
TCGGGCACAGATGCGGCTGCGGCGCCTCAACGCCACCACCACCTAGGCCCCACACTGTGCCTCCACGCTGCC  
CCCTGCCCCCTGCCACCACCTGAGCACTACCATAGAGCCCTGGGGCCTCATACCGCCAACCACCGCTGGCTGGGA  
GGAGTCGGAGACTGAGACCTACACAGAGGTGGTGACAGAGTTTGGGACCGAGGTGGAGCCCGAGTTTGGGACCAA  
GGTGGAGCCCCGAGTTTGGAGCCAGTTGGAGCCTGAGTTTGGAGCCAGCTGGAACCCGAGTTTGGGAAGAGGA  
GGAGGAGGAGAAAGAGGAGGAGATAGCCACTGGCCAGGCATTCCCCTTCAACAGTAGAGACCTACACAGTGAA

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**FIGURE 2248B**

CTTTGGGGACTTCTGAGATCAGCGTCCTACCAAGACCCCAGCCCAACTCAAGCTACAGCAGCAGCACTTCCCAAG  
CCTGCTGACCACAGTCACATCACCATCAGCACATGGAAGGCCCTGGTATGGACACTGAAAGGAAGGGCTGGTC  
CTGCCCCTTTGAGGGGGTGCAAACATGACTGGGACCTAAGAGCCAGAGGCTGTGTAGAGGCTCCTGCTCCACCTG  
CCAGTCTCGTAAGAGATGGGGTTGCTGCAGTGTTGGAGTAGGGGCAGAGGGAGGGAGCCAAGGTCACCTCCAATAA  
AACAAGCTCATGGC

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**FIGURE 2249**

GTTTCCCTCTGCGTTCGCTCCGCGCTGCTGGAGGCTGTGCTCCCAATGCTCCCCAAACGGCGGCGAGCGCGGGTC  
GGGTCCCCTAGCGGCGATGCCGCTTCCTCCACGCCGCCCTCGACGCGCTTCCCGGGAGTCGCCATCTACCTGGTC  
GAGCCTCGCATGGGTTCGAGCCGCCGGGCCTTCCTCAGAGCCTGGCGCGCTCCAAAGGCTTCCGCGTCTTGAC  
GCCTGCAGCTCCGAAGCGACACATGTTGTGATGGAAGAGACCTCAGCAGAGGAGGCCGTGAGCTGGCAGGAGCGC  
AGGATGGCAGCTGCTCCCCGGGTTCACCCCCCAGCTCTGCTGGACATAAGCTGGTTAACAGAGAGCCTGGGA  
GCTGGGCAGCCTGTACCTGTGGAGTGCCGGCACCGCCTGGAGGTGGCTGGGCCAAGGAAGGGGCCTCTGAGCCCA  
GCATGGATGCCTGCCTATGCCTGCCAGCGCCCTACGCCCTCAGACACCACAACACTGGCCTCTCCGAGGCTCTG  
GAGATACTGGCCGAGGCAGCAGGCTTTGAAGGCAGTGAGGGCGCCTCCTCACCTTCTGCAGAGCAGCCTCGGTG  
CTCAAGGCCCTTCCAGCCCTGTCAACCCCTGAGCCAGCTGCAGGGGCTTCCCCACTTTGGAGAACACTCCTCT  
AGGGTTGTCCAGGAGCTGCTGGAGCATGGAGTGTGTGAGGAGGTGGAGAGAGTTCGGCGCTCAGAGAGGTACAG  
ACCATGAAGCTCTTACCCAGATCTTCGGGGTGGTGTGAAGACTGCTGACCGGTGGTACCGGGAAGGACTGCGA  
ACCTTAGATGACCTCCGAGAGCAGCCCCAGAACTAACCCAACAGCAGAAAGCGGGGCTCCAGCACCACCAGGAC  
CTGAGCACCAGCTCTGCGGTCCGATGTAGATGCCCTGCAGCAGGTGGTGGAGGAAGCTGTGGGGCAGGCCCTG  
CCTGGGGCCACCGTACGCTGACCGCGGCTTCGCGAGGGGGAAGTTGCAGGGCCATGACGTGGACTTCTCATC  
ACCCACCCCAAGGAGGGTACAGAGCGGGGCTGCTGCCTAGAGTGATGTCCGCTGCAGGACCAGGGCCTCATC  
CTGTACCACCAGCACCAGCACAGCTGCTGTGAGTCCCCTACCGCCTGGCCCAACAGAGCCACATGGACGCTTTT  
GAGAGAAGTTTCTGCATTTTCCGCCTACCACAACCTCCAGGGGCTGCTGTGGGGGGATCCACGAGGCCCTGCCA  
TCCTGGAAGGCCGTGAGAGTGGACTTGGTAGTTGCACCGCTCAGCCAGTTCCCTTTCGCCCTGCTCGGTTGGACT  
GGCTCCAAGCTTTTCCAGCGGGAGCTGCGCCGCTTCAGCCGGAAGGAGAAGGGCCTGTGGCTGAACAGCCATGGG  
CTGTTTGAACCGGAGCAGAAGACATTTTCCAAGCGGCTTCAGAGGAAGACATCTTCAGACACCTGGGCCTTGAG  
TACCTTCTCCAGAGCAGAGAAACGCCCTGAGCCTGCCTGTGTCCCCCACTTCCACTCAGGAAATTGGGCTGCCCC  
CAACCTGGCCACTGAATGTCTCCAGGCAGATATGCTGCCCCCTGACCCCCACCTTCACCCCTCCCCGCCAAGGCC  
TGGCTCTTCCGGAGGTCAATTGTGCCTGCAGGATCAGTTGAGCCCCCTGCTGGTGTGCTGCAGGGTGTGATGAGGT  
GGGAGCCCTCAGTGCCAGCCTCATCACTGTGTGACCCTGGGTCTGCTCTTAGCCTCCCCATGGCTCACGTTCTG  
CCCTGGATGGGATGTGAGTGGGGCCACATCGTGGAGCTGTGGTGGGGCCTGCAGTCATGAATGGCAAGTGGTCC  
CTGATGTGAGTGTCTCATTAGTTGCACTGCAGTTAACTGTGGCTCCTGCAGGGCACCTGCCAGAAATGCCAG  
AAGAGAACCATGCATACCTGCACTGCATTTGAGAGCCATGAGCTGGAGGCTGTGGTTCTGTCAGCAAGGAGCCT  
ACTGTCTGGTGTGCTGTAGGCATCTGGAGAGGGAGAGGGCCTGGGTAGGAGCTGGGAGGAAGATAATTTTCACT  
ATGGGGCTTCAGTACTGCAGCGCCCCGAGCCAGGCTCTGTGCTTCTGCCTTTAAGGCCTGTTCTCAGCACAATGT  
CTCAAAAATAGGTATATCCTGCCACTCCCGTCGAGAGCCCTTTAATGGTTCCAAACCCTAAGTCCACACATAG  
CCCCTGGCTCTGGCATCTCTCCAGCCCCACTGGCCCCGAGCTGCTTGAATCACCAGGCTTCTTATTTGATGCACCC  
AGGCCCCCTTGTGGCCAACTCCCTCCCCTTCTCACTGAGGCAGAAAGCACTGAGGTGGGCTGGACATGGGTGCCCT  
CCAGTCCCTCATATCCCCAGGCACACTCTGGCCTCAGGTTTTGCCCTGGCCATGTCATCTACCTGGAGTGGGCC  
CTCCCCTTCTCAGGCCTTGAATCAAAAGCCACTTTGTAGGCGAGGATTTCCAGACCACTCATCACATTAATA  
AATATTTTGAACATGCAGT



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**FIGURE 2250**

MLPKRRRARVGSPSGDAASSTPPSTRFPGVAIYLVPRMGRSRRAFLTGLARSKGFRVLDACSSEATHVVMETS  
AEEAVSWQERRMAAAPPGCTPPALLDISWLTESLGAGQVPVVECRHRLEVAGPRKGPLSPAWM PAYACQRPTPLT  
HHNTGLSEALEILAEAAGFEGSEGRLLTFCRAASVLKALPSPVTTLSQLQGLPHFGEHSSRVVQELLEHGVC EEV  
ERVRRSERYQTMKLETFQIFGVGVKTADRWYREGLRTLDDLREQPQKLTQQQKAGLQHHQDLSTPVLRSDDVDALQQ  
VVEEAVGQALPGATVTLTGGFRRGKLQGHVDVDFLITHPKEGQEAGLLPRVMCRLQDQGLILYHQHQSCCESPTR  
LAQQSHMDAFERSFCIFRLPQPPGAAVGGSTRPCPSWKAVRVDLVVAPVSQFFPFALLGWTGSKLFQRELRRFSRK  
EKGLWLNSHGLFDPEQKTFFQAASEEDIFRHLGLEYLPEQRNA

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**FIGURE 2251**

GGCACGAGGGCGGAGACTGCGGGGCGGGCCATGGCGGCGAACCTGAGCCGGAACGGGGCCAGCGCTGCAAGAGGCC  
TACGTGCGGGTGGTCAACGAGAAGTCCCCGACCGACTGGGCTCTCTTTACCTATGAAGGCAACAGCAATGACATC  
CGCGTGGCTGGCACAGGGGAGGGTGGCCTGGAGGAGATGGTGGAGGAGCTCAACAGCGGGAAGGTGATGTACGCC  
TTCTGCAGAGTGAAGGACCCCAACTCTGGACTGCCCAAATTTGTCCTCATCAACTGGACAGGCGAGGGCGTGAAC  
GATGTGCGGAAGGGAGCCTGTGCCAGCCACGTCAGCACCATGGCCAGCTTCCTGAAGGGGGCCCATGTGACCATC  
AACGCACGGGCGGAGGAGGATGTGGAGCCTGAGTGCATCATGGAGAAGGTGGCCAAGGCTTCAGGTGCCAACTAC  
AGCTTTTACAAGGAGAGTGGCCGCTTCCAGGACGTGGGACCCCAAGGCCCCAGTGGGCTCTGTGTACCAGAAGACC  
AATGCCGTGTCTGAGATTAAGGAGGTGGTAAAGACAGCTTCTGGGCCAAAGCAGAGAAGGAGGAGGAGAACCGT  
CGGCTGGAGGAAAAGCGGCGGGCCGAGGAGGCACAGCGGCAGCTGGAGCAGGAGCGCCGGGAGCGTGAGCTGCGT  
GAGGCTGCACGCCGGGAGCAGCGCTATCAGGAGCAGGGTGGCGAGGCCAGCCCCCAGAGCAGGACGTGGGAGCAG  
CAGCAAGAAGTGGTTTCAAGGAACCGAAATGAGCAGGAGTCTGCCGTGCACCCGAGGGAGATTTTCAAGCAGAAG  
GAGAGGGCCATGTCCACCACCTCCATCTCCAGTCTCAGCCTGGCAAGCTGAGGAGCCCCCTTCCTGCAGAAGCAG  
CTCACCCAACAGAGACCCACTTTGGCAGAGAGCCAGCTGCTGCCATCTCAAGGCCCAGGGCAGATCTCCCTGCT  
GAGGAGCCGGCGCCAGCACTCCTCCATGTCTGGTGCAGGCAGAAGAGGAGGCTGTGTATGAGGAACCTCCAGAG  
CAGGAGACCTTCTACGAGCAGCCCCCACTGGTGCAGCAGCAAGGTGCTGGCTCTGAGCACATTGACCACCACATT  
CAGGGCCAGGGGCTCAGTGGGCAAGGGCTCTGTGCCCGTGGCCTGTACGACTACCAGGCAGCCGACGACACAGAG  
ATCTCCTTTGACCCCGAGAACCTCATCACGGGCATCGAGGTGATCGACGAAGGCTGGTGGCGTGGCTATGGGCCG  
GATGGCCATTTTGGCATGTTCCCTGCCAACTACGTGGAGCTCATTGAGTGAGGGCTGAGGGCACATCTTGCCCTTC  
CCCTCTCAGACATGGCTTCCTTATTGCTGGAAGAGGAGGCCTGGGAGTTGACATTCAGCACTCTTCAGGAATAG  
GACCCCCAGTGAGGATGAGGCCTCAGGGCTCCCTCCGGCTTGGCAGACTCAGCCTGTCACCCCAATGCAGCAAT  
GGCCTGGTGATTCCCACACATCCTTCCTGCATCCCCCGACCCTCCCAGACAGCTTGGCTCTTGCCCCTGACAGGA  
TACTGAGCCAAGCCCTGCCTGTGGCCAAGCCCTGAGTGGCCACTGCCAAGCTGCGGGGAAGGGTCTGAGCAGGG  
GCATCTGGGAGGCTCTGGCTGCCTTCTGCATTTATTTGCCTTTTTTCTTTTCTCTTGCTTCTAAGGGGTGGTGG  
CCACCACTGTTTAGAATGACCCTTGGAACAGTGAACGTAGAGAATTGTTTTTAGCAGAGTTTGTGACCAAAGTC  
AGAGTGGATCATGGTGGTTTGGCAGCAGGGAATTTGTCTTGTGGAGCCTGCTCTGTGCTCCCCACTCCATTTCT  
CTGTCCCTCTGCCTGGGCTATGGGAAGTGGGGATGCAGATGGCCAAGCTCCCACCCTGGGTATTCAAAAACGGCA  
GACACAACATGTTCCCTCCACGCGGCTCACTCGATGCCTGCAGGCCCCAGTGTGTGCCTCAACTGATTCTGACTTC  
AGGAAAAGTAACACAGAGTGGCCTTGGCCTGTTGTCTTCCCCTATTTTCTGTCCAGCTCATCCGTGTCTCTGAA  
GAACAAATATGCTTTTGGACCACGAAA

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**FIGURE 2252**

MAANLSRNGPALQEAYVRVVEKSPDWDALFTYEGNSNDIRVAGTGEGGLEEMVEELNSGKVMYAFCRVKDPNSG  
LPKFVLINWTGEGVNDVRKGACASHVSTMASFLKGAHVTINARAEEDVEPECIMEKVAKASGANYSFHKESGRFQ  
DVGFPQAPVGSVYQKTNAVSEIKRVGKDSFWAKAEKEEENRRLEEKRAEEAQRQLEQERRERELREAAARREQRYQ  
EQGGEASPOSRTWEQQQEVVSRNRNEQESAVHPREIFKQKERAMSTTSISSPQPGKLRSPFLQQLTQPEHFGFR  
EPAAAI SRPRADLP AE EPAPSTPPCLVQAE EEA VYE EPP EQET FYEQPPLVQQQGAGSEHIDHHIQGGGLSGQGL  
CARALYDYQAADDTEISFDPENLITGIEVIDEGWWRGYGPDGHFGMFPANYVELIE

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**FIGURE 2253**

GGGGAGAGCGGGTGTGTTGAAGGCTCCGCGGACCGGCACTAGGAGCCGGGGGCGGGTCCGTGACCCTCCGGCTGCT  
CGGAGTGAACAGGCGGCCAGGAAAGAAGCGGGCCTGAACACCATGATCCCTTTGGAGAAGCCAGGCAGCGGCGGC  
TCCTCCCCAGGCGCCACCTCAGGCTCGGGCCGGGCAGGCCGGGGTCTGAGCGGGCCGTGCCGGCCGCCGCCGCCG  
CCCCAGGCCCCGCGGGCTGCTGACAGAGATACGCGCCGTGGTGCGCACCGAGCCCTTCCAGGACGGCTACAGCCTG  
TGCCCCGGGCGGGGAGCTGGGCAGGGGGAATTTGCAGTGGTGAGAAAATGTATAAAGAAAGATTCTGGGAAAGAA  
TTTGCTGCAAAAGTTCATGAGAAAAAGAAGAAAGGCCAAGATTGTCGGATGGAAATAATTCATGAGATTGCTGTA  
CTTGAAGCTAGCACAAAGACAATCCTTGGGTCATTAATTTACATGAAGTTTATGAGACTGCATCAGAAATGATCTTA  
GTTCTGGAATATGCTGCTGGGGGTGAAATCTTTGACCAGTGTGTTGCAGACAGAGAAGAAGCCTTTAAAGAAAA  
GATGTTCAAAGACTTATGCGACAGATTTTAGAAGGTGTTCACTTTTACACACTCGTGATGTAGTTTCATCTTGAT  
TTGAAGCCTCAGAATATTTCTGTTGACAAGTGAATCTCCATTGGGTGACATTAAGATTGTTGATTTTGGCCTTTCA  
AGAATATTGAAGAACAGTGAAGAGCTCCGAGAAATTATGGGTACCCCTGAATATGTGGCTCCTGAAATTCTTAGT  
TATGATCCTATAAGCATGGCAACAGATATGTGGAGCATTGGAGTGTTAACATATGTCATGCTTACAGGAATATCA  
CCTTTCTTAGGCAATGATAACAAGAAACATTCTTAAACATCTCACAGATGAATTTAAGTTATTCTGAGGAAGAA  
TTTGATGTTTTGTCTGAGTCGGCTGTTGATTTTCATCAGGACACTTTTAGTTAAGAAACCTGAAGATCGAGCCACT  
GCTGAAGAATGTCTAAAGCACCCCTGGTTGACACAGAGCAGTATTCAAGAGCCTTCTTTCAGGATGGAAAAGGCA  
CTAGAAGAAGCAAATGCCCTCCAAGAAGGTCAATTCTGTGCCTGAAATTAATTCGGATACCGACAAATCAGAAACC  
AAGGAATCCATTGTAACCGAAGAGTTAATTGTAGTTACTTCATATACTCTAGGACAATGCAGACAGTCTGAAAA  
GAGAAAATGGAGCAAAAGGCCATTTCCAAACGATTTAAATTTGAGGAACCTTTGCTACAAGAAATTCAGGAGAA  
TTTATCTACTGAGCAATATTTCCCTTTAGAACTTCAAGATTTCTACATTGAAAATGTTAATATTATTTATGGACC  
TCTGGCCAAATGGTACATGTACTGGAAGTGGATAACCAGTATCACTTACACAAACAAAAATAACTTTGTCAAATT  
TGTGGAGTTAGGTGGAAGCCAGATTTTAAAGTTGCCAACAGGAGATTTAACAGGTACAGTTACCCGTTTCAAT  
GTTATTTTTAAGAAGGGAGATGTTGGCACCTTTGAATTTCTACATCCTGTTTCTCCAGAATGAGAATTTGTGTACA  
AAGATATTTGTATTCATTTCTTTAAAAAATCCAAGTAAAGTGCCAAAACCTACACTTCTGTAAATCTCTTGCAT  
TATTCATATGTGTATCTATATCTGCATAATGTTTGTAAATGTCTACTAAAATTGCTACTTTTTTCACTTTGGATTT  
GTTTTTGGCAAAATTTTAGTCTAAACAGACATCTAAATTTTCGAGACTTAGAATAACATTCATAAAGTTTGATA  
ATGTCTTTTTTAAATATTTTCTTACTGCTTTATAGTGACTTGATTGGTTTCTGTTGTGTTTTTGCCTAAATACT  
AGTAACATATCAGTGAAAAACCCTAATTTTTTTTCTCTTCAATGTCAGTGTAGTAAGAGAGGTGGTAATTTTTTACC  
TCTGAAATTATTTCTGGGTTTAGGTGTCAGCTCTTGAGCTGCTTCCCTCATCACACCACACTCACATGCATCTGTT  
CTCTCTCACACTCTATACCCCTGCCACTTCTGTCACCTCCCCCATGCTTGTCAATTTAATTTTGGCCACTTGTA  
GGTATCAGTGTGATCTGATCAACACTCTGGTTACCTTGGTCAAGTGAAGATGCTACTATATTGCTTTTGTCCCA  
AAGTGAGTAAAAATCCCTAGAGCAGAGAGAGAGAGAGAGAGAGAGAGAGTGTCTTCATGCCAACACAGCCTGTTTC  
TGCTGAGTTTCTTATCAGCCCTCAAGCTATGCTAGGAAAAGTTATAAAATGCCAAAATATTTATAAACATTTACT  
TTGTCCATAAAAAATTTACATTGGATACTCTGTAAGTAGGAGGTACTTTGTCCCAAAAAGATGTATAAGAATGTA  
CTAATAGTTTTATTTGATTAGGATTGAACAGTTCAGTTGTATCTATGCCCCACAGTGACCAGTAAAGTCCAATTA  
AAATATGGAAATGTAAAAGTGTATGCCGAATACCTTAAAGTAACTAATTATCCTTACACACAAAAGGCTCAGTGC  
ATTAAATATTTGCCTATC

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**FIGURE 2254**

ATGGCGGAGCGCGGGTACAGCTTTTCGCTGACTACATTCAGCCCGTCTGGTAAACTTGTCCAGATTGAATATGCT  
TTGGCTGCTGTAGCTGGAGGAGCCCCGTCCGTGGGAATTAAAGCTGCAAATGGTGTGGTATTAGCAACTGAGAAA  
AAACAGAAATCCATTCTGTATGATGAGCGAAGTGTACACAAAGTAGAACCAATTACCAAGCATATAGGTTTGGTG  
TACAGTGGCATGGGCCCCGATTACAGAGTGCTTGTGCACAGAGCTCGAAAACCTAGCTCAACAATACTATCTTGTG  
TACCAAGAACCCATTCTACAGCTCAGCTGGTACAGAGAGTAGCTTCTGTGATGCAAGAATATACTCAGTCAGGT  
GGTGTTCGTCCATTTGGAGTTTCTTTACTTATTTGTGGTTGGAATGAGGGACGACCATATTTATTTTCAGTCAGAT  
CCATCTGGAGCTTACTTTGCCTGGAAAGCTACAGCAATGGGAAAGAACTATGTGAATGGGAAGACTTTCCCTTGAG  
AAAAGATATAATGAAGATCTGGAACCTTGAAGATGCCATTATACAGCCATCTTAACCCTAAAGGAAAGCTTTGAA  
GGGCAAATGACAGAGGATAACATAGAAGTTGGAATCTGCAATGAAGCTGGATTTAGGAGGCTTACTCCAAGTAA  
GTTAAGGATTACTTGGCTGCCATAGCATAACAATGAAGTGACTGAAAAATCCAGAATTTTCAGATAATCTATCTAC  
TTAAACATGTTTAAAGTATGTTTTGTTTTGCAGACTTTTTGCATACTTATTTCTACATGGTTTAAATCGACTGTT  
TTTAAATGACACTTATAAATCCTAATAAACTGTTAAACCC

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**FIGURE 2255**

MAERGYSFSLTTFSPSGKLVQIEYALAAVAGGAPSVGIKAANGVVLATEKKQKSILYDERSVHKVEPITKHIGLV  
YSGMGPDYRVLVHRARKLAQQYYLVYQEP IPTAQLVQRVASVMQEYTSGGVVRPFGVSLICGWNEGRPYLFQSD  
PSGAYFAWKATAMGKNYVNGKTFLEKRYNEDLELEDAIHTAILTLKESFEGQMTEDNIEVGICNEAGFRRLTPTE  
VKDYLAAlA

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**FIGURE 2256**

GCTCGGCGCCCTCTTCCCTGCAAACCATGTTTGCCAAAGGCAGAGGCTCGGCGGTGCCCTCGGATGGGCAGGCTT  
GGGAAAAGTTAGCTTCATACGTCTACGAATATTTACTGCACGTAAGAGTACAGAAATCTGCAGAGACCTTCTTGT  
CGGAGATTTCGATGGGAAAAAACATCACGTTGGGAGAACCGCCTGGGTTTTTGCACCTCGTGGTGGTGTGATTTG  
GGGACCTTTACTGTGCAGCTCCTCAAAGGAGAGACACTTGTGAACATTCAAGTGAAGCAAAGCCTTTTCATGATT  
ATAGTGCAGCAGCTGCCCCGAGCCCCGTGCTTGGCAACATTCCCCCAACGATGGGATGCCGGGAGGCCCCATCC  
CGCCAGGTTTCTTTCAGGGTCCTCCGGGGTCACAGCCCTCGCCGCACGCACAGCCTCCACCTACAATCCTAGCA  
GCATGATGGGACCCACAGTCAGCCTCCGGGAGGAGTTCTTGGGACACAGCCATTGCTGCCCAATTCTATGGATC  
CCACACGACAACAAGGCCACCCCAACATGGGAGGATCAATGCAGAGAATGAACCCTCCCCGAGGCATGGGGCCCA  
TGGGTCCCGGCCACAGAATTACGGCAGCGGCATGAGACCACCACCAACTCCCTCGGCGGCCATGCCCGGGAT  
TAACATGGGCGCGGAGCTGGCAGACCCTGGCCCAATCCTAACAGTGCTAACTCAATTCCATATTCCTCCTCATC  
ACCTGGTACCTATGTGGGACCCCCGGTGGTGGCGGCCCTCCAGGAACACCCATTATGCCAGTCCCGCAGATTCA  
ACAAATTCAGTGACAACATCTACACAATGACCTGGCGGCAGGTCCAACCTCCCGATGGGTCCCGGCTCGGACGG  
TCCGATGGGCGGCATGGGTGGCATGGAGCCACACCACATGAATGGATCATTAGGGTCAGGCGACATAGACGGACT  
TCCAAAAAATTCCTTAACAACATAAGTGGCATTAGCAATCCTCCAGGCACCCCTCGAGATGACGGCGAGCTAGG  
AGGGAGCTTCCTCCACTCCTTTTCAAGATGACAATTATTCTCCAAGCATGACGATGAGTGTGTGATCCCCCTTCT  
CCGAGACGCTGAGAGAGCCGGCATTGCAGGCGGGAAGACGCCAGAAATTATGCAAGAAGTGAGGTGTTATTATCC  
AGGAGCTGGTGGGAGGGCATCTCCCTGCTCCCCTAAACCCCTCCCACCCCATCCACGCCCCCTACCTTTCCCA  
ATTTTAGTTTCATGCAATAAAAAGGCCAAACTTTTTATTCCATAAAAC

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**FIGURE 2257**

MFAKGRGSAVPSDGQAWEKLASVYVEYLLHVRVQKSAETFLSEIRWEKNITLGEPPGFLHSWWCVFGDLYCAAPQ  
RRDTCEHSSEAKAFHDYSAAAAPSPVLGNIPPNDGMPGGPIPPGFFQPFMSPRYVGGPGPPIRMGNQPPGGVLGT  
QPLL PNSMDPTRQQGHFNMGGSMQRMNPPRGMGPMGPGPQNYGSGMRPPPSLGPFCPGLTWARELADPGPIILTV  
LTQFHIPP HHLVPMWDPRWWRPSRNTHYAQSRRFNKFQ



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**FIGURE 2258**

GGCGGGTTCGCGCCCCGAAGGCTGAGAGCTGGCGCTGCTCGTGCCCTGTGTGCCAGACGGCGGAGCTCCGCGGCC  
GGACCCCGCGGCCCCGCTTTGCTGCCGACTGGAGTTTGGGGGAAGAACTCTCCTGCGCCCCAGAGGATTTCTTC  
CTCGGCGAAGGGACAGCGAAAGATGAGGGTGGCAGGAAGAGAAGGGCGCTTTCTGTCTGCCGGGGTTCGACGCGG  
AGAGGGCAGTGCCATGTTCTCTCCATCCTAGTGGCGCTGTGCCTGTGGCTGCACCTGGCGCTGGGCGTGCAGCGG  
CGCGCCCTGCGAGGGCGGTGCGCATCCCTATGTGCCGGCACATGCCCTGGAACATCACGCGGATGCCCAACCACCT  
GCACCACAGCACGCAGGAGAACGCCATCCTGGCCATCGAGCAGTACGAGGAGCTGGTGGACGTGAAGTGCAGCGC  
CGTGCTGCGCTTCTTCTCTGTGCCATGTACGCGCCCATTTGCACCCTGGAGTTCCTGCACGACCCTATCAAGCC  
GTGCAAGTCGGTGTGCCAACGCGCGCGGACGACTGCGAGCCCCCTCATGAAGATGTACAACCACAGCTGGCCCGA  
AAGCCTGGCCTGCGACGAGCTGCCTGTCTATGACCGTGGCGTGTGCATCTCGCCTGAAGCCATCGTACGGACCT  
CCCGGAGGATGTTAAGTGGATAGACATCACACCAGACATGATGGTACAGGAAAGGCCTCTTGATGTTGACTGTAA  
ACGCCTAAGCCCCGATCGGTGCAAGTGTAAAAGGTGAAGCCAACCTTGGCAACGTATCTCAGCAAAAACCTACAG  
CTATGTTATTTCATGCCAAAATAAAGCTGTGCAGAGGAGTGGCTGCAATGAGGTCACAACGGTGGTGGATGTAAA  
AGAGATCTTCAAGTCTCATCACCATCCCTCGAACTCAAGTCCCGCTCATTACAAATTCTTCTTGCCAGTGTCC  
ACACATCCTGCCCCATCAAGATGTTCTCATCATGTGTTACGAGTGGCGCTCAAGGATGATGCTTCTTGAAAATTG  
CTTAGTTGAAAAATGGAGAGATCAGCTTAGTAAAAGATCCATACAGTGGGAAGAGAGGCTGCAGGAACAGCGGAG  
AACAGTTCAGGACAAGAAGAAAACAGCCGGGCGCACCAGTTCGTAGTAATCCCCCAAACCAAAGGGAAAGCCTCC  
TGCTCCCAAACAGCCAGTCCCAAGAAGAACATTAAAACTAGGAGTGCCCAAGAGAACAACCCGAAAAGAGT  
GTGAGCTAACTAGTTTCCAAAGCGGAGACTTCCGACTTCTTACAGGATGAGGCTGGGCATTGCCTGGGACAGCC  
TATGTAAGGCCATGTGCCCTTGCCCTAACAACTCACTGCAGTGCTCTTCATAGACACATCTTGACGATTTTTTC  
TTAAGGCTATGCTTCAGTTTTTCTTTGTAAGCCATCACAAGCCATAGTGGTAGGTTTGCCCTTTGGTACAGAAGG  
TGAGTTAAAGCTGGTGGAAAAGGCTTATTGCATTGCATTGAGAGTAACCTGTGTGCATACTCTAGAAGAGTAGGG  
AAAATAATGCTTGTTACAAATTCGACCTAATATGTGCATTGTAAAAATAATGCCATATTTCAAACAAAACACGTAA  
TTTTTTTACAGTATGTTTTATTACCTTTTGATATCTGTTGTTGCAATGTTAGTGATGTTTTAAATGTGATCGAA  
AATATAATGCTTCTAAGAAGGAACAGTAGTGGAATGAATGTCTAAAAGATCTTTATGTGTTTTATGGTCTGCAGAA  
GGATTTTTGTGATGAAAGGGGATTTTTTGAAAAATCTAGAGAAGTAGCATATGGAAAACCTATAATGTGTCTTTTT  
TACAATGACTTCAGCTCTGTTTTTAGCTAGAACTCTAAAAACAAAAATAATAATAAGAAAAATAAATAAAAAAG  
GAGAGGCAGACAATGTCTGGATTCTGTTTTTGGTTACCTGATTTCATGATCATGATGCTTCTTGTCACACCC  
TCTTAAGCAGCACCAGAAACAGTGAGTTTGTCTGTACCATTAGGAGTTAGGTACTAATTAGTTGGCTAATGCTCA  
AGTATTTTATACCCACAAGAGAGGTATGTCACTCATCTTACTTCCAGGACATCCACCCTGAGAATAATTTGACA  
AGCTTAAAAATGGCCTTCATGTGAGTGCCAAATTTGTTTTCTTCATTTAAATATTTTCTTTGCCTAAATACATG  
TGAGAGGAGTTAAATATAAATGTACAGAGAGGAAAGTTGAGGTCCACCTCTGAAATGAGAATTACTTGACAGTT  
GGGATACTTTAATCAGAAAAAAGAACTTATCTTGACGATTTTATCAACAAATTTTATAATTGTGGACAATTGG  
AGGCATTTATTTTAAAAACAATTTTATTGGCCTTTTGCTAACACAGTAAGCATGTATTCTCTATAAGGCATTCA  
ATAAATGCACAACGCCCAAAGGAAATAAAATCCTATCTAATCCTACTCTCCACTACACAGAGGTAATCACTATTA  
GTATTTTGGCATATTATTCTCCAGGTGTTTCTTATGCACTTATAAAATGATTTGAACAAATAAACTAGGAACCT  
GCTATACATGTGTTTCATAACCTGCCTCCTTTGCTTGGCCCTTTATTGAGATAAGTTTTCTGTCAAGAAAGCAG  
AAACCATCTCATTTCTAACAGCTGTGTTATATTCCATAGTATGCATTACTCAACAACTGTTGTGCTATTGGATA  
CTTAGGTGGTTTCTTCACTGACAATACTGAATAAACATCTCA

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**FIGURE 2259A**

CGGTGTGCTGGGGCGAGCGGGAGCGGGCGAGGATGGGCACAGGATAGAGGCAGAGCCACCCACGCCGCCGCGGGC  
CCACGCTGGGCGACAGAGCCTCCAGTTCCCCTTCAATGGTGGCGGGTCGCCGGAGCTCTGATCGCCGGGAACCCCT  
TGCCGCTGCTGTCTGCGACCCCAAGCAGGTATAGACACGTGTGGCCGTTTACGCTGTAGGATCCTCATTCCCAC  
TGGCTTTGAACATTTTGGGGACTTACAATGCCGCCACCCGCGGACATCGTCAAGGTGGCCATAGAATGGCCGGGC  
GCCTACCCCAAACCTCATGGAAATTGATCAGAAAAAACCACTGTCTGCAATAATAAAGGAAGTCTGTGATGGGTGG  
TCTCTTGCCAACCATGAATATTTTGCACCTCCAGCATGCCGATAGTTCAAACCTTCTATATCACAGAAAAGAACCGC  
AATGAGATAAAAAATGGCACTATCCTTCGATTAAACCACATCTCCAGCTCAGAACGCCCAGCAGCTCCATGAACGA  
ATCCAGTCTCGAGTATGGATGCCAAGCTGGAAGCCCTGAAGGACTTGGCCAGCCTCTCCCGGGATGTCACGTTT  
GCCCAGGAGTTTATAAACCTGGACGGTATCTCTCTCCTCACGCAGATGGTGGAGAGCGGCACTGAGCGATACCAG  
AAATTGCAGAAGATCATGAAGCCTTGCTTTGGAGACATGCTGTCTTACCCTGACGGCCTTCGTCGAGCTGATG  
GACCATGGCATAGTGTCTGGGATACATTTTCGGTGGCGTTTATTAGAAGATAGCAAGTTTTGTGAACAAGTCA  
GCCATAGACATCTCGATCCTGCAGCGGTCTTGGCCATTTTGGAGTCGATGGTGTCTCAATAGCCATGATCTCTAC  
CAGAAAGTGGCGCAGGAGATCACCATCGGCCAGCTCATTCCACACCTGCAAGGGTCAGATCAAGAAATCCAAACC  
TATACTATTGCAGTGATTAATGCGCTTTTCTGAAGGCTCCTGATGAGAGGAGGCAGGAGATGGCGAATATTTTG  
GCTCAGAAGCAACTGCGTTCCATCATTTTAACACATGTCATCCGAGCCAGCGGGCCATCAACAATGAGATGGCG  
CACCAGCTGTATGTTCTACAAGTGTCTACCTTTAACCTCCTGGAAGACAGGATGATGACCAAAATGGACCCCGAG  
GACCAGGCTCAGAGGGACATCATATTTGAACCTCGAAGAATTGCTTTTGATGCTGAGTCTGAACCTAACACAGC  
AGTGGCAGCATGGAGAAACGCAAGTCCATGTACACGCGAGATTATAAGAAGCTTGGGTTTATTATCATGTCAAC  
CCTGCCATGGACTTCACGCAGACTCCACCTGGGATGTTGGCTCTGGACAACATGCTGTACTTTGCCAAGCACCAC  
CAAGATGCCTACATCCGATTGTGCTTGAGAACAGTAGTCGAGAAGACAAGCATGAATGTCCCTTTGGCCGCGAGT  
AGTATAGAGCTGACCAAGATGCTATGTGAGATCTTGAAGTGGGCGAGTTGCCTAGTGAGACCTGCAACGACTTC  
CACCGATGTTCTTACCCACGACAGATCCTTTGAGGAGTTTTTCTGCATCTGTATCCAGCTCCTGAACAAGACA  
TGGAAGGAAATGAGGGCAACTTCTGAAGACTTCAACAAGGTAATGCAGGTGGTGAAGGAGCAGGTTATGAGAGCA  
CTTACAACCAAGCCTAGCTCCCTGGACCAGTTCAAGAGCAAACCTGCAGAACCTGAGCTACACTGAGATCCTGAAA  
ATCCGCCAGTCCGAGAGGATGAACCAGGAAGATTTCCAGTCCCGCCCGATTGTTGGAATAAAGGAGAAGATTTCAG  
CCAGAAATCTTAGAGCTGATCAAAACAGCAACGCCTGAACCGCCTTGTGGAAGGGACCTGCTTTAGGAAACTCAAT  
GCCCCGCGGAGGCAAGACAAGTTTTGGTATTGTGCGCTTTCGCCAAATCACAAAGTCTGCATTACGGAGACTTA  
GAAGAGAGTCTCAGGGAGAAGTGCCCCACGATTCTTGCAGGACAACTGCCGGTGGCAGATATCAAAGCCGTG  
GTGACGGGAAAGGACTGCCCTCATATGAAAGAGAAAGGTGCCCTTAAACAAAACAAGGAGGTGCTTGAACCTCGCT  
TTCTCCATCTTGTATGACTCAAACCTGCCAAGTGAACCTCATCGCTCCTGACAAGCATGAGTACTGTATCTGGACG  
GATGGACTGAATGCGCTACTCGGGAAGGACATGATGAGCGACCTGACGCGGAATGACCTGGACACCCTGCTCAGC  
ATGGAAATCAAGCTCCGCTCCTGGACCTGGAAAACATCCAGATCCCTGACGCACCTCCGCCGATTCCCAAGGAG  
CCCAGCAACTATGACTTCGTCTATGACTGTAAGTGGCCGGGCCCAGACATGCCCTTCCAAAACCTGGAAC  
ACCTAGCTAACAGGAGAGAGGAATGAAAACACACCCACGCCTTGAACCGTCTTTGGTAAAGGGAAGCTGTGGG  
TCCACATTCCCTTCAGCATCACCTCTAGCCCTGGCAACTTTAGCCCTTAGCTGGCATCTTGCTCACCGCCCTGA  
TTCTGTTTCTCGGCTCCACTGCTTCAGGTCACTTCCCATGGCTGCAGTCCACTGGTGGGACAAGAGCAAAGCCCA  
CTGCCAGTAAGAAGGCCAAAGGGCCCTTCCATCCTAGCCCTCTGCAGGCATGCCCTTCCCTTCCCTTGGGCAGGAA  
AGCCAGCAGCCCCAGACTGCCCAAAAACCTGCCCACCAGACCAAGGGCAGTGGCCCAAGGCCCTGTCTGGAGGA  
AATGGCCTAGCTATTTGATGAGAAGACCAAAACCCACATCCTCCTTTCCCTCTCTCTAGAATCATCTCGACCA  
CCAGTTACACTTGAATTAAGATCTGCGCTCAAATCTCCTCCACCTCTCTCCCTGCTTTTGCTTGCTCTGTTCC  
TCTTTGGTCCCAAGAGCAGCGCGCAGCCTCCTCGTGATCCTCCTAGCATAAATTTCCCAAACAGTCCACAGG  
TCCATGCCCACTTTGCGTCTGCACTGTGATCGTGACAAATCTTCCCTCCTCACCAGCTAGTCTGGGGTTTCTCT  
TCCCTGCCCCAGGCCAGAACTGCCTTCTTCATTTCCACCCACGCTCCAGCCTCTTAGCTGAAAGCACAAATGGT  
GAAATCAGTAGTCTCGCTCCATCTCTAATAGACTAAACCTAAATGCCTCTAGGACGGACTGTTGCTATCCAAGCG  
TTTGGTGTTACCTTCTCCTGGGAGGTCTGCTGCAACTCAAGTTCCACAGGATGGTCAAGCTGTCAGACATCCAA  
GTTTACATCATTGTAATTATTACTGGTATTTACAATTTGCAAGAGTTTTGGGTTAGTTTTTTTTTTTTTTTGGCT  
TTGTTTTTGGACAAAAGAGTCTAACATTTTTTGGCAAACAGATATATATTTAATGAAAAGAAGAGATACATAAT  
GTGTGAATTTCCAGTTTTTTTTTAATTATTTTAATCCCAAACATCTTCTGAAAATAACATTCCCTTAAACATGC

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**FIGURE 2259B**

TGTGGAATAAAATGGATTGTGATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2260**

CATTTAAAGGTGTGCGGCGGGTCTCTGTTACATGGCTCAACTGGAAACCTGTTTCATGAACAAGCTTACTCAGG  
AACCATCTGGTGGTATTCCAGCACATTGTTCTTCAGGGGGACGACTCTAAGTCGCTTTGTGGTGGCAGCAGCTTA  
GAATCAGTATTTGTGGTTGGGAAAGATGGACTTACGGGAGCTTGGTAAATGCAGGTGGTGAAGGAGCAGGTTATGA  
GAGCACTTACAACCAAGCCTAGCTCCCTGGACCAGTTCAAGAGCAAACCTGCAGAACCTGAGCTACACTGAGATCC  
TGAAAATCCGCCAGTCCGAGAGGATGAACCAGGAAGATTTCAGTCCC GCCCGATTGTTGGAAGGAGGAGAAGA  
TTCAGCCAGAAATCTTAGAGCTGATCAAACAGCAACGCCTGAACCGCCTTGTGGAAGGGACCTGCTTTAGGAAAC  
TCAATGCCCCGGCGGAGGCAAGACAAGTTTTGGTATTGTCGGCTTTCGCCAAATCACAAAGTCCTGCATTACGGAG  
ACTTAGAAGAGAGTCCCTCAGGGAGAAGTGCCCCACGATTTCCTTGCAAGGACAACTGCCGGTGGCAGATATCAAAG  
CCGTGGTGACGGGAAAGGACTGCCCTCATATGAAAGAGAAAGGTGCCCTTAAACAAAACAAGGAGGTGCTTGAAC  
TCGCTTTCTCCATCTTGTATGACTCAAACCTGCCAACTGAACCTTCATCGCTCCTGACAAGCATGAGTACTGTATCT  
GGACGGATGGACTGAATGCGCTACTCGGGAAGGACATGATGAGCGACCTGACGCGGAATGACCTGGACACCCTGC  
TCAGCATGGAATCAAGCTCCGCCTCCTGGACCTGGAAAACATCCAGATCCCTGACGCACCTCCGCCGATTCCCA  
AGGAGCCCAGCAACTATGACTTCGTCTATGACTGTAACCTGAAGTGGCCGGGCCCAGACATGCCCCCTTCCAAAACCT  
GGAACACCTAGCTAACAGGAGAGAGGAATGAAAACACACCCACGCCTTGAACCGTCCTTTGGTAAAGGGAAGCT  
GTGGGTCCACATTCCCTTCAGCATCACCTCTAGCCCTGGCAACTTTCAGCCCCTAGCTGGCATCTTGCTCACCGC  
CCTGATTCTGTTCCCTCGGCTCCACTGCTTCAGGTCACTTCCCATGGCTGCAGTCCACTGGTGGGACAAGAGCAAA  
GCCCCTGCCCAGTAAGAAGGCCAAAGGGCCCTTCCATCCTAGCCCTCTGCAGGCATGCCCTTCCCTTCCCTTGGGC  
AGGAAAGCCAGCAGCCCCAGACTGCCCAAAAACCTTGCCCACCAGACCAAGGGCAGTGCCCCAAGGCCCTGTCTG  
GAGGAAATGGCCTAGCTATTTGATGAGAAGACCAAACCCACATCCTCCTTTCCCCTCTCTCTAGAATCATCTCG  
CACCACCAGTTACACTTGAATTAAGATCTGCGCTCAAATCTCCTCCACCTCTCTCCTGCTTTTGCTTGCTCT  
GTTCTCTTTGGTCCCAAGAGCAGCAGCCGAGCCTCCTCGTGATCCTCCCTAGCATAAATTTCCCAAACAGTCC  
ACAGGTCCCATGCCCACTTTGCGTCTGCACTGTGATCGTGACAAATCTTCCCTCCTCACCAGCTAGTCTGGGGTT  
TCCTCTCCCTGCCCCAGGCCAGAACTGCCTTCTTCATTTCCACCCACGCTCCCAGCCTCTTAGCTGAAAGCACAA  
ATGGTGAAATCAGTAGTCTCGCTCCATCTCTAATAGACTAAACCTAAATGCCTCTAGGACGGACTGTTGCTATCC  
AAGCGTTTGGTGTTACCTTCTCCTGGGAGGTCTGCTGCAACTCAAGTCCACAGGATGGTCAAGCTGTCAGACA  
TCCAAGTTTACATCATTGTAATTATTACTGGTATTTACAATTTGCAAGAGTTTTGGGTTAGTTTTTTTTTTTTT  
TTGCTTTGTTTTTGGACAAAAGAGTCTAACATTTTTTGCCAAACAGATATATATTTAATGAAAAGAAGAGATACA  
TAAATGTGTGAATTTCCAGTTTTTTTTTAAATATTTTAATCCCAAACATCTCCTGAAAATAACATTCCCTTAA  
CATGCTGTGGAATAAAATGGATTGTGATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2261**

MQVVKEQVMRALTTKPSSLDQFKSKLQNLSTYTEILKIRQSERMNQEDFQSRPILELKEKIQPEILELIKQORLNR  
LVEGTCFRKLNARRRQDKFWYCRLSPNHKVLHYGDLEESPOGEVPHDSLQDKLPVADIKAVVTGKDCPHMKEKGA  
LKQNKVELELAFSILYDSNCQLNFIAPDKHEYCIWTDGLNALLGKDMMSDLTRNDLDTLLSMEIKLRLLDLENIQ  
IPDAPPPIPKEPSNYDFVYDCN

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**FIGURE 2262**

GCACCCGGCAGCGGTCTCAGGCCAAGCCCCCTGCCAGCATGGCCAGCGAGTTCAAGAAGAAGCTCTTCTGGAGGG  
CAGTGGTGGCCGAGTTCTTGGCCACGACCCTCTTTGTCTTCATCAGCATCGGTTCTGCCCTGGGCTTCAAATACC  
CGGTGGGGAACAACCAGACGGCGGTCCAGGACAACGTGAAGGTGTCGCTGGCCTTCGGGCTGAGCATCGCCACGC  
TGGCGCAGAGTGTGGGCCACATCAGCGGCGCCACCTCAACCCGGCTGTCACACTGGGGCTGCTGCTCAGCTGCC  
AGATCAGCATCTTCCGTGCCCTCATGTACATCATCGCCAGTGCCTGGGGGCCATCGTCGCCACCGCCATCCTCT  
CAGGCATCACCTCCTCCCTGACTGGGAACCTCGCTTGGCCGCAATGACCTGGCTGATGGTGTGAACCTCGGGCCAGG  
GCCTGGGCATCGAGATCATCGGGACCCTCCAGCTGGTGCTATGCGTGCTGGCTACTACCGACCGGAGGCGCCGTG  
ACCTTGGTGGCTCAGCCCCCTTGCCATCGGCCTCTCTGTAGCCCTTGGACACCTCCTGGCTATTGACTACACTG  
GCTGTGGGATTAACCCTGCTCGGTCTTTTGGCTCCGCGGTGATCACACACAACCTCAGCAACCACTGGATTTTCT  
GGGTGGGGCCATTTCATCGGGGGAGCCCTGGCTGTACTCATCTACGACTTCATCCTGGCCCCACGCAGCAGTGACC  
TCACAGACCGCGTGAAGGTGTGGACCAGCGGCCAGGTGGAGGAGTATGACCTGGATGCCGACGACATCAACTCCA  
GGGTGGAGATGAAGCCCCAATAGAAGGGGTCTGGCCCGGGCATCCACGTAGGGGGCAGGGGCAGGGGCGGGCGGA  
GGGAGGGGAGGGGTGAAATCCATACTGTAGACACTCTGACAAGCTGGCCAAAGTCACTTCCCCAAGATCTGCCAG  
ACCTGCATGGTCAAGCCTCTTATGGGGGTGTTTCTATCTCTTTCTTTCTTTCTTTCTGTTTCCTGGCCTCAGAGCTT  
CCTGGGGACCAAGATTTACCAATTACCCACTCCCTTGAAGTTGTGGAGGAGGTGAAAGAAAGGGACCCACCTGC  
TAGTCGCCCCCTCAGAGCATGATGGGAGGTGTGCCAGAAAGTCCCCCCTCGCCCCAAAGTTGCTCACCAGCTCACC  
TGCGCAAGTGCCTGGGATTCTACCGTAATTGCTTTGTGCCTTTGGGCAGGCCCTCCTTCTTTTCTTAACATGCAC  
CTTGCTCCCAATGGTGCTTGGAGGGGGAAGAGATCCCAGGAGGTGCAGTGGAGGGGGCAAGCTTTGCTCCTTCAG  
TTCTGCTTGCTCCCAAGCCCCCTGACCCGCTCGGACTTACTGCCTGACCTTGAATCGTCCCTATATCAGGGCCTG  
AGTGACCTCCTTCTGCAAAGTGGCAGGGACCGGCAGAGCTCTACAGGCCTGCAGCCCCTAAGTGCAAACACAGCA  
TGGGTCCAGAAGACGTGGTCTAGACCAGGGCTGCTCTTTCCACTTGCCCTGTGTTCTTTCCCCAGGGGCATGACT  
GTCGCCACACGCCTCTGCATATATGTCTCTTTGGAGTTGGAATTTCAATTATATGTTAAGAAAATAAAGGAAAATG  
ACTTGTAAGGTC

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**FIGURE 2263**

MASEFKKKLFWRAVVAEFLATTLFVFISIGSALGFKYPVGNNQTAVQDNVKVSLAFGLSIATLAQSVGHISGAHL  
NPAVTLGLLLSCQISIFRALMYIIAQCVGAIVATAILSGITSSLTGNSLGRNDLADGVNSGQGLGIEIIGTLQLV  
LCVLATTDRRRRDLGGSAPLAIGLSVALGHLLAIDYTGCGINPARSFGSAVITHNFSNHWIFWVGPFFIGGALAVL  
IYDFILAPRSSDLTDRVKVWTSGQVEEYDL DADDINSRVEMKPK

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**FIGURE 2264A**

TCAGTCCCCGTGCACAGACCTGCACAAATGGCTGAGCCTCATCATTCCCTGACAGCGAGGAGATCTTGGATGTGCC  
AGGCCTAGTGAAAGACCAACAATCTCACTGCAGGGCCCGCCAGCCCCAGGGAAGGGGAGGAGTTCTTGCCGCGCC  
GACGCCGCCGTGCGCACGGCAACGCGGCCATACTGCGCCGACAGACCCAGTTGCCTGGTGCTGCGGCCCGGCGT  
GGGCCTCGTGGGCAGAGCCAGAGCCAGAGCCATGGACAGCCTCTTCGTGGAGGAGGTGGCCGCCTCCTTGGTCAG  
GGAGTTCTCAGCAGAAAGGGCTTAAAGAAGACATGTGTGACCATGGACCAGGAACGCCCACGCTCTGACCTCAG  
CATAACAACAGAAATGATCTTCGAAAGGTTTTGCATCTGAATTTCTCTATAAGGAGAACAAGGCAAAGGAAAA  
TCCTCTAAAAACAAGCCTTGAACATCACCAGATACTTTCTGGATCACTTTGGAAATACGGCTAACAAATTTTAC  
TCAAGATACCCCAATCCCTGCACTCTCAGTTCCAAAGAAAAATAACAAAGTGCCATCAAGATGCTCAGAGACTAC  
ACTGGTAAATATATATGACCTTTCAGATGAAGATGCAGGATGGAGAACATCATTGTGAGAAACAAGCAAAGCCAG  
ACATGACAATCTTGATGGAGATGTACTTGGTAATTTTGTATCATCTAAAAGGCCCCCGCACAAAAGTAAGCCCAT  
GCAGACGGTCCCGGGTGAAACTCCTGTGTGACTTCTGCATGGGAGAAGATAGACAAGCTTCACTCGGAGCCTTC  
CTTGGATGTGAAGAGGATGGGAGAGAATCCAGGCCAAAGTCTGGTCTGATTGTGCGAGGCATGATGTCTGGGCC  
CATCGCCAGCTCCCCACAGGTGAGGAAATCAGGGACAGAGAAGTTAAGCAGCTTGCCACAGGTGACACAGTTGGT  
AGGTGGTGATGCAGACTGGAGCGACGGCTTACCTGCTGCATGAACCTGCTCTCTGATTCTTTTACAGACACTA  
TCTGAGACGGTCTCACCGTCAAGCAGCTCCACCCAACCCCAAGAAGAGAGCCGGAAGTCCCTGAGCTCTTTGT  
CTGCACCCAACAGGACATTCTGGCTTCGAGCAACAGCTCCCCCTCCAGGACCTCCCTGGGTGAGCTTAGTGAAC  
GACCGTAGAAAGGCAGAAAACCACTGCCAGCAGCCCTCCCATCTGCCAGCAAACGGCTGCCCCCATGGGACAG  
GGCCAGGCCGAGGGATCCCTCCGAGGACACCCACAGAGTGACGGCAGCACAGACACGGACAGGATGCCCTTGAA  
GCTCTACTTGCCTGGTGGTAATTCAGGATGACCCAGGAGAGGCTGGAAAGAGCGTTCAAACGGCAGGGCAGCCA  
GCCCCGACCTGTGAGGTATTACAGTAAAGATAAACTGCAAAGCCTGTCCCTGGATATCACCTTAGATGCATTGGA  
TGCCCTGGGGGAAAGTTTGTGTTATCCCTGGGGTCTCATTCTAAAGACTGAAGCAGCTCTCTTGTCTTCCC  
CAGCGTGTTTTTCTACGGCCTGCATTGGGTTTTGTGTCATTTGCAGACATTTTGGATAATGTACACTTATGGAA  
AAATCAGTTGCTGCCGTCTGACAAGGTGGATGGTGAGCTGGGTGCCCTGCGGCTCGAGGATGTGGAGGATGAGTT  
GATAAGGGAAGAGGTCATCTGTGCCAGTCCCATCAGTGCTCAAGTTGCAGACAGCATCAAACCAATTGACCT  
CTCAGTAGCAAAGGCACCTCAGATGTGGCTGGTGACGAAGAGCTGGGGAATAAGACCTCTGCTTTGGAGATGT  
TAAAATTGAACATGGATTAAAGGAGCACTTGCTTCCCACTAGCCTTTGCCAATGTGTCCAGGAGTCAGATCCTG  
TGCTAAGCCCCGTGATGCCTACAGAGATGAGCTCCTCAAGAAGCCTCTGCACCACAGGGGTGGTCTTGCGGAGT  
CCTGGCAGCTGTCCAAGGCTGTGTCTACAGAACTCCTGTTTGAAGGAGATAGCAAAGCCGACTGTGCTCAGGG  
ACTGCAGCCTTCAGATGCCACCGGACCCGCTGCCTCGTCTGCCCCCTGCAGACATTGTGTGGCGGGCAGGGGG  
CCGAGAGAGAGCCGTTGTTGCACTGGCTTCGAGAACACAGCAGTTCAAGTCCAACAGGGAAATACAAAGCAGATGG  
AGTCTTAGAAACACTTACGCTTACAGTTTGACCTGCTATGAGGACCTGGTGACTTTTCTTCAACAAAGCATTCA  
TCAGAACTTTCCAAAGACCTGAAGGCCTGGGCACAGCCCTGGGAAATGATCAGGCCCTGGCAGCACCAGATGT  
CCCTTGGGTAGGCAATGGGGCCTACCCTAGGAACAAAAGGAGGCAGTTTGAAGTGGGCCCCCTATGGCTGCATCCT  
GCTCACCTTTCTGCCATCCTGTCCAGGTCTACAGAGCTGGGCCTCTGCTGTGGATTGGGGGGAGGACAGTGGGG  
GCTCTGTGGCCTCGTGCGCCAGGCTGCCTGCTGCTTCTGACCTTATTAATGCGTACCAGAGCCAGGG  
TGAGGACATCATGGACAGATGTAAACCTAGCCGAGTGCTGCCGACCACTGCCTGCCTGGCCACTTCATTGTCAGA  
GGCCCCAAGAAGAGTCGAGAAACAGACCTTTGAGGGAGCTCTCACAAGCCCCAAGGATGCTCAGGGTCTTGGGGT  
CAGGACAGCTCTGAACCAGACCTGGGCAGCACTGAGCATGGGCTGCTCTGGTGCCCTCAGTGGAGCACAGACCTGG  
CCAGGTCATTGAGGGCCCTGAGAAGGGTCCAGTGTGACCCCCAGGGCCGTGTGTGCCCCAGGGTTGTGTGTACCC  
CCCTGGGTGAGGGGCCCTCAATGGACCTCACAGGGGCAAAGAAGACCCCTGAGCACAGTTGCTTGTATCATCAGTCT  
CTCAGTCACCCAGGAACCTTGTCAATCTGCTCCTGACTGGGAAAGCTGTGTCCAACGTTTTCAACGATGTGGTTGA  
GCTGGATTCTGGGGATGGGAACATCACACTTCTCAGAGGCATTGCTGCACGCAGTGATATTGGCTTCTTATCTCT  
CTTTGAGCATTACAACATGTGCCAGGTTGGCTGCTTCTGAAGACCCGAGGTTCCCATCTGGGTGGTTTGCAG  
TGAGAGCCACTTCAGCATCCTCTTTAGCCTGCAGCCGGGGCTCCTGCGTGACTGGAGGACTGAGAGGCTCTTTGA  
CTTGTAATACTACGATGGCCTGGCCAACCAGCAGGAGCAGATCCGGCTGACCATTGACACCACCCAAACCATCTC  
TGAGGACACAGACAACGACCTTGTCCCACCCCTCGAGCTCTGCATCAGAACCAAGTCTGTGTTCCATGTCTGCGA  
GAACCTTGTGACACCAGCTGCCTGCCTGTTCCACTTCCCCCATCAATCCCCCATCATGGTGGGTCCACCTTGGC  
AGTTGTTCTTAGAAAAGCTGAGTGGGCTCTATCAGGCACCTTTTTCCCCATGAAAAACACTGGGTCCATCAACGT



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**FIGURE 2264B**

TGAAAAGCAGTTAAGGCAGTATCAGCAATGGGCACTCACTGCCGAGGAGAAGTCTGACTTCACCAAGCCAAGCCA  
GTTTGTCTCCAAATACGGCACCAGTGTCTCTTATTTGAGCAGTGAAGATGAACGCTCTGATATGGATAAATTCCA  
TCAAAGTGGCTCAACCCCAAAACCCAATAGACTCCTCTGGATCTGCTTGACACACAGAAGCCCAGTAAATAGTCT  
GAAGCACTTGGATAGCATAGAAGCACTTAATTCTTCCACATCCAATGGATTTCAAAAAGAAGATGAGAACATGCA  
GAAGTGCGGTGGCCTGCTGATGAAGAAGGGGACCCAGCAGCCTCTTCCCAAAGTGGCCTGCCTGCAGCC  
TTCCCTGGTGTTCTTTGATTACCTGGGTCCTTGCCCTCTGGCTCCCCATGTCCATCTGTCAAATCCTACCCATC  
CCACAAGGCCAGCTCCAAGGCCCTCCTCTAAGAAGCCCTCCTGGATTACCCAGCCGACAGTTCAAGTCCTCCCC  
TCTGAGTGCTCACAGGACTCAATCACCTCCTCTTTCACAAGCCTAG

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**FIGURE 2265**

GTCAC TCGTATAAAAAACCTATGCTTTGAAGGTTCTCGTGTGTCTCGGCCTGCAGGTCTCGCTCAGAGCTGTGTCC  
CTGAACATCCACCCCTGCTGGGGTGGCTTGACGCACTTCTGTGCAAATCTGTTTCGCTCGCAACCCCTACCTACCTCT  
CTCCCGAACCCGGAGAAAACTTTCGGCGGGTCTCTCCGGGTTTTGTGTGCAATCTGCGGCGGCGACCCGGCGCCG  
CGTCACGCGGTGGTGAATGTGCGGCAGTACGCGCGCCGCGTCTGTTTACGCGGCGATTTCATCATGCTCCGAGCCG  
GCGGCGCGCGCCGCTTCCGTCGCCACCTCTCTGACAGCCAGGGCCGAGGCTCATGCCCTCTCCGCGTCCAG  
TGCTGCTTAGAGGTGCTCGCGCCGCTCTGCTGCTGCTGCTGCCGCCCCGGCTCTTAGCCCGACCCTCGCTCCTCC  
TCCGCGCGTCCCTCAGCGCGGCCCTCTGCGCCCCGATCTCCTTGCCCCCGCCGCTCCCGGAGCAGCATGACG  
GCGCGGGGGCTGAGGAGGTGCTGGCACCTCTGAGGCTAGCAGTGCCCAGCAGGGAGATCTTGTGCGAAAACCTCA  
AAGAAGATAAAGCACCCCAAGTAGACGTAGACAAAGCAGTGGCTGAGCTCAAAGCCCGCAAGAGGGTTCTGGAAG  
CAAAGGAGCTGGCGTTACAGCCCAAAGATGATATTGTAGACCGAGCAAAAATGGAAGATACCCTGAAGAGGAGGT  
TTTTCTATGATCAAGCTTTTGTATTTATGGAGGTGTTAGTGGTCTGTATGACTTTGGGCCAGTTGGCTGTGCTT  
TGAAGAACAATATTATTCAGACCTGGAGGCAGCACTTTATCCAAGAGGAACAGATCCTGGAGATCGATTGCACCA  
TGCTCACCCCTGAGCCAGTTTTAAAGACCTCTGGCCATGTAGACAAATTTGCTGACTTCATGGTGAAAGACGTAA  
AAAATGGAGAATGTTTTCTGCTGACCATCTATTTAAAGCTCATTTACAGAAATTGATGTCTGATAAGAAGTGT  
CTGTGCAAAAGAAATCAGAAATGGAAAGTGTGTTGGCCAGCTTGATAACTATGGACAGCAAGAACTTGCGGATC  
TTTTTGTGAACTATAATGTAAATCTCCATTACTGGAATGATCTATCCCTCCAGTGTCTTTTAACTTAATGT  
TCAAGACTTTTCATTGGGCCTGGAGGAAACATGCCTGGGTACTTGAGACCAGAACTGCACAGGGGATTTTCTTGA  
ATTTCAAACGACTTTTGGAGTTCAACCAAGGAAAGTTGCCTTTTGTGCTGCCAGATTGGAAATTTCTTTAGAA  
ATGAGATCTCCCTCGATCTGGACTGATCAGAGTCAGAGAATTCACAATGGCAGAAATTGAGCACTTTGTAGATC  
CCAGTGAGAAAGACCACCCCAAGTTCCAGAATGTGGCAGACCTTCACCTTTATTTGTATTACAGCAAAAGCCCAGG  
TCAGCGGACAGTCCGCTCGGAAAATGCGCCTGGGAGATGCTGTTGAACAGGGTGTGATTAATAACACAGTATTAG  
GCTATTTTCATTGGCCGCATCTACCTCTACCTCACGAAGGTTGGAATATCTCCAGATAAACTCCGCTTCCGGCAGC  
ACATGGAGAATGAGATGGCCCATTTATGCCTGTGACTGTTGGGATGCAGAATCCAAAACATCCTACGGTTGGATTG  
AGATTGTTGGATGTGCTGATCGTTCTGTTATGACCTCTCCTGTGATGCACGAGCCACCAAAGTCCCACTTGTAG  
CTGAGAAACCTCTGAAAGAACCCAAAACAGTCAATGTTGTTTCAGTTTGAACCCAGTAAGGGAGCAATTGGTAAGG  
CATATAAGAAGGATGCAAACTGGTGATGGAGTATCTTGCCATTTGTGATGAGTGCTACATTACAGAAATGGAGA  
TGCTGCTGAATGAGAAAGGGGAATTCACAATTGAACTGAAGGGAAAACATTTTCAGTTAACAAAAGACATGATCA  
ATGTGAAGAGATTCCAGAAAACACTATATGTGGAAGAAGTTGTTCCGAATGTAATTGAACCTTCCTTCGGCCTGG  
GTAGGATCATGTATACGGTATTTGAACATACATTCCATGTACGAGAAGGAGATGAACAGAGAACATTCTTCAGTT  
TCCCTGCTGTAGTTGCTCCATTCAAATGTTCCGTCTCTCCACTGAGCCAAAACCAGGAGTTTCATGCCATTTGTCA  
AGGAATTATCGGAAGCCCTGACCAGGCATGGAGTATCTCACAAAGTAGACGATTCCTCTGGGTCAATCGGAAGGC  
GCTATGCCAGGACTGATGAGATTGGCGTGGCTTTTGGTGTACCATTTGACTTTGACACAGTGAACAAGACCCCC  
ACACTGCAACTCTGAGGGACCGTGACTCAATGCGGCAGATAAGAGCAGAGATCTCTGAGCTGCCAGCATAGTCC  
AAGACCTAGCCAATGGCAACATCACATGGGCTGATGTGGAGGCCAGGTATCCTCTGTTTGAAGGGCAAGAGACTG  
GTAAAAAAGAGACAATCGAGGAATGAGGACAATTTTGACAACCTTTGACCCTTGCGCTAATAAAAAAAAAAAAA  
CTACTCTTATGTCCACTTTACAAAAGAAAACAGCATTGTGATTACTCCCAGGGACCGTATTTTATCTTCAGTGGC  
TGCCTGATTTTACCCCCACAATTAAAGTTGAAGGAATCCTGA

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**FIGURE 2266**

MDGAGAEVLAFLRLAVRQQGDLVRKLKEDKAPQVDVDKAVAEKARKRVLEAKELALQPKDDIVDRAKMEDTLK  
RRFFYDQAFAIYGGVSGLYDFGPVGCALKNNIIQTRQHF IQEEQILEIDCTMLTPEPVLKTS GHVDKFADFMVK  
DVKNGECFRADHLLKAHLQKLMSDKKCSVEKKSEMESVLAQLDNYGQQLADLFVNYNVKSPITGNDLSPPVSFN  
LMFKTFIGPGGNMPGYLRPETAQGIFLNFKRLLEFNQGKLPFAAAQIGNSFRNEISPRSGLIRVREFTMAEIEHF  
VDPSEKDHPKFQNVADLHLYLSAKAQVSGQSARKMRLGDAVEQGVINNTVLGYFIGRIYLYLTKVGISPDKLRF  
RQHMENEMAHYACDCWDAESKTSYGWIEIVGCADRSCYDLSCHARATKVPLVAEKPLKEPKTVNVVQFEP SKGAI  
GKAYKKDAKL VMEYLAICDECYITEMEMLLNEKGEFTIETEGKTFQLTKDMINVKRFQKTLYVEEVVPNVIEPSF  
GLGRIMYTVFEHTFHVREGDEQRTFFSFPVAVAPFKCSVLPLSQNQEFMPFVKELSEALTRHGVSHKVDDSSGSI  
GRRYARTDEIGVAFGVTIDFDTVNKTPHTATLRDRDSMRQIRAEISELPSIVQDLANGNITWADVEARYPLFEGQ  
ETGKKETIEE

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**FIGURE 2267**

ATGACAGATGCCGCTGTGTCCTTCGCCAAGGACTTCCTGGCAGGTGGAGTGGCCGAAGCCATCTCCAAGACAGCG  
GTAGCGCCCATCGAGCAGGTCAAGCTGCTGCTGCAGGCTTTTAACTTCGCCTTCAAAGATAAATAACAAGCAGATC  
TTCCTGGGTGGGAATCTGGCATCAGGAGGTGCCGCTGGGGCCACATACTTGTGTTTTGTGTACCCCTCTTGATTTT  
GCCCGTACCTGTCTAGCAGCTAATGTGGGTAAAGCTGAAGCTGAAAGGGAATTCCGAGGCCTCTGTGACTGCCTG  
GTTAAGATCTACAAATCTGATGGGATTAAGGGCCTGTACCAAGGCTTTAACGTGTCTATGCAGGGTATTATCCGA  
GCTGCCTACTTCGGTATCTATGACACCGCAAAGGGAATGCTTCCGGATCCCAAGGACACTCACATCGTCATCAGC  
TGGATGACCACACAGACTGTCACTGCCTTTTCTGGGTTGACTTCCTATTTCATTTGACATCTCAGGGCGCAAAGTA  
ACTGACATCATGTACACAGGCACACTTGACTGCTGGAGGAAGATTGCTGGTGATGAAGGAGGCAAAGCTTTTTTC  
AAGGGTTCATGGTCCAGTGTTCTCAGAGGCATGGGTGGTGCTTTTGTGCTTGTCTTGTTTGATGAAATCAAGAAG  
TACAGGTAA

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**FIGURE 2268**

MTDAAVSFAKDFLAGGVAEAI SKTAVAPIEQVKLLLQAFNFAFKDKYKQIFLGGNLASGGAAGATYLCFVYPLDF  
ARTCLAANVGKAEAEREFRGLCDCLVKIYKSDGIKGLYQG FNVSMQGI IRAAYFGIYDTAKGMLPDPKDTHIVIS  
WMTTQTVTAFSGLTSYSFDISGRKVTDIMYTGTLD CWRKIAGDEGGKAFFKGSWSSVLRGMGGA FVLVLFDEIKK  
YR

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**FIGURE 2269**

TCGGCGGGACGGCTCCCGGCTGCAGTCTGCCCGCCCGCCCGCGCGGGGGCCGAGTCGCGAAGCGCGCCTGCGAC  
CCGGCGTCCGGGCGCGCTGGAGAGGACGCGAGGAGCCATGAGGCGCCAGCCTGCGAAGGTGGCGGCGCTGCTGCT  
CGGGCTGCTCTTGGAGTGCACAGAAGCCAAAAAGCATTGCTGGTATTTTGAAGGACTCTATCCAACCTATTATAT  
ATGCCGCTCCTACGAGGACTGCTGTGGCTCCAGGTGCTGTGTGCGGGCCCTCTCCATACAGAGGCTGTGGTACTT  
CTGGTTCTTCTGATGATGGGCGTGCTTTTCTGCTGCGGAGCCGGCTTCTTCATCCGGAGGCGCATGTACCCCC  
GCCGCTGATCGAGGAGCCAGCCTTCAATGTGTCTACACCAGGCAGCCCCCAAATCCCGGCCAGGAGCCAGCA  
GCCGGGGCCGCCCTATTACACCGACCCAGGAGACCGGGGATGAACCCTGTCGGGAATTCCATGGCAATGGCTTT  
CCAGGTCCCACCCAACCTACCCCAGGGGAGTGTGGCCTGCCCGCCCCCTCCAGCCTACTGCAACACGCCTCCGCC  
CCCGTACGAACAGGTAGTGAAGGCCAAGTAGTGGGGTGCCACGTGCAAGAGGAGAGACAGGAGAGGGCCTTTCC  
CTGGCCTTTCTGTCTTCGTTGATGTTCACTTCCAGGAACGGTCTCGTGGGCTGCTAAGGGCAGTTCCTCTGATAT  
CCTCACAGCAAGCACAGCTCTCTTTCAGGCTTTCATGGAGTACAATATATGAACTCACACTTTGTCTCCTCTGT  
TGCTTCTGTTTCTGACGCAGTCTGTGCTCTCACATGGTAGTGTGGTGACAGTCCCCGAGGGCTGACGTCCTTACG  
GTGGCGTGACCAGATCTACAGGAGAGAGACTGAGAGGAAGAAGGCAGTGCTGGAGGTGCAGGTGGCATGTAGAGG  
GGCCAGGCCGAGCATCCCAGGCAAGCATCCTTCTGCCCGGGTATTAATAGGAAGCCCCATGCCGGGCGGCTCAGC  
CGATGAAGCAGCAGCCGACTGAGCTGAGCCCAGCAGGTATCTGCTCCAGCCTGTCTCTCGTCAGCCTTCTCT  
TCCAGAAGCTGTTGGAGAGACATTCAGGAGAGAGCAAGCCCCCTGTCTATGTTTCTGTCTCTGTTTCATATCCTAAA  
GATAGACTTCTCCTGCACCGCCAGGGAAGGGTAGCACGTGCAGCTCTCACCGCAGGATGGGGCCTAGAATCAGGC  
TTGCCTTGGAGGCCTGACAGTGATCTGACATCCACTAAGCAAATTTATTTAAATTCATGGGAAATCACTTCTGTC  
CCCAAATGAGACATTGCATTTTGTGAGCTCTTGGTCTGATTTGGAGAAAGGACTGTTACCCATTTTTTTGGTGT  
GTTTATGGAAGTGCATGTAGAGCGTCTGCCCCCTTTGAAATCAGACTGGGTGTGTGTCTTCCCTGGACATCACTGC  
CTCTCCAGGGCATTCTCAGGCCCGGGGGTCTCCTTCCCTCAGGCAGCTCCAGTGGTGGGTCTGAAGGGTGCTTT  
CAAAACGGGGCACATCTGGCTGGGAAGTCACATGGACTCTTCCAGGGAGAGAGACCAGCTGAGGCGTCTCTCTCT  
GAGGTTGTGTTGGGTCTAAGCGGGTGTGTGCTGGGCTCCAAGGAGGAGGAGCTTGCTGGGAAAAGACAGGAGAAG  
TACTGACTCAACTGCAGTACCATGTTGTCTATAATTAGAATAAAGAAGAAGTGGTCGGAATGCACATTCCTGGA  
TAGGAATCACAGCTCACCCAGGATCTCACAGGTAGTCTCCTGAGTAGTTGACGGCTAGCGGGGAGCTAGTTCCG  
CCGCATAGTTATAGTGTGATGTGTGAACGCTGACCTGTCTGTGTGCTAAGAGCTATGCAGCTTAGCTGAGGCG  
CCTAGATTACTAGATGTGCTGTATCACGGGGAATGAGGTGGGGTGCTTATTTTTTAATGAACTAATCAGAGCCT  
CTTGAGAAATTGTTACTCATTGAACTGGAGCATCAAGACATCTCATGGAAGTGGATACGGAGTGATTTGGTGTCC  
ATGCTTTTCACTCTGAGGACATTTAATCGGAGAACCTCCTGGGGAATTTTGTGGGAGACACTTGGGAACAAAACA  
GACACCCTGGGAATGCAGTTGCAAGCACAGATGCTGCCACAGTGTCTCTGACCACCCTGGTGTGACTGCTGACT  
GCCAGCGTGGTACCTCCCATGCTGCAGGCCTCCATCTAAATGAGACAACAAAGCACAAATGTTCACTGTTTACAAC  
CAAGACAACCTGCGTGGGTCCAAACACTCCTCTTCTCCAGGTCAATTTGTTTTGCATTTTAAATGTCTTTATTTTT  
TGTAATGAAAAAGCACACTAAGCTGCCCCCTGGAATCGGGTGCAGCTGAATAGGCACCCAAAAGTCCGTGACTAAA  
TTTCGTTTGTCTTTTGTAGCAAATTATGTTAAGAGACAGTGATGGCTAGGGCTCAACAATTTTGTATTCCCAT  
GTTTGTGTGAGACAGAGTTTGTCTTCCCTTGAACCTGGTTAGAATTGTGCTACTGTGAACGCTGATCCTGCATAT  
GGAAGTCCCACTTCGGTGACATTTCTGGCCATTCTTGTCTTCCATTGTGTGGATGGTGGGTGTGCCCACTTCT  
GGAGTGAGACAGCTCCTGGTGTGTAGAATTCCCGGAGCGTCCGTGGTTCAGAGTAACTTGAAGCAGATCTGTGC  
ATGCTTTTCTCTGCAACAATTGGCTCGTTTCTCTTTTTTGTCTCTTTTGATAGGATCCTGTTTCTATGTGTG  
CAAAATAAAAAATAAATTTGGGCA

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**FIGURE 2270**

MRRQPAKVAALLLGLLLECTEAKKHCWYFEGLYPTYYICRSYEDCCGSRCCVRALSIQRLWYFWFLMMGVLFCC  
GAGFFIRRRMYPPPLIEEPAFNVSYTRQPPNPGPGAQQPGPPYYTDPGGPGMNPVGNSMAMAFQVFPNSPQGSVA  
CPPPPAYCNTPPPPYEQVVKAK

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**FIGURE 2271**

GCCGCTCCTGGTGCTGCTTGTGTGCTCGTTTGGTGCGGACCTGGTACCTCTTTTGTGAAGTGGCAGCTGAGGAGA  
CCGGCGCTCGCCATGGCCGACGAAAAGCCCAACCAAGGAGTCAAGTCGGAGAACAACGATCATACTAATTTGAAG  
GTGGCGGGGCAGGATGGTTCTGTGGTGCAGTTTAAGATTAAGAGGCATACACCACTTAGTAAACTAATGAAAGCC  
TATTGTAAGCAACAGGGATTGTCAATGAGGCAGATCAGATTCCGATTTCGACGGGCAACCAATCAAGGAAACAGAC  
ACACCTGCACAGTTGGAAATGGAGAATGAAGATACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTGGA  
AAAGGGAACCTGCTTCTTTACTCCAGAACTCTGTTTCCTTAAAGACCAAGATTACATTCTCAATTAGTCTTTTCATT  
TCCCCCTTCCCCATTCTTTATTGTACATAACTGGTATATGTGCACAAGCATATTGCATTTTTTTTT



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**FIGURE 2272**

MADEKPNQGVKSENNDHTNLKVAGQDGSVVQFKIKRHTPLSKLMKAYCKQQGLSMRQIRFRFDGQPIKETDTPAQ  
LEMENEDTIDVFQQQTGGVY

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**FIGURE 2273**

GGAGGAAAATTCTTCCAGCGATGGTCTCCCACTCAGAGCTGAGGAAGCTTTTCTACTCAGCAGATGCTGTGTGTT  
TTGATGTTGACAGCACGGTCATCAGAGAAGAAGGAATCGATGAGCTAGCCAAAATCTGTGGCGTTGAGGACGCGG  
TGTCAGAAATGACACGGCGAGCCATGGGCGGGGCAGTGCCTTTCAAAGCTGCTCTCACAGAGCGCTTAGCCCTCA  
TCCAGCCCTCCAGGGAGCAGGTGCAGAGACTCATAGCAGAGCAACCCCCACACCTGACCCCCGGCATAAGGGAGC  
TGGTAAGTCGCCTACAGGAGCGAAATGTTTCAGGTTTTCTTAATATCTGGTGGCTTTAGGAGTATTGTAGAGCATG  
TTGCTTCAAAGCTCAATATCCCAGCAACCAATGTATTTGCCAATAGGCTGAAATTCTACTTTAACGGTGAATATG  
CAGGTTTTGATGAGACGCAGCCACAGCTGAATCTGGTGGAAAAGGAAAAGTGATTAAACTTTTAAAGGAAAAAT  
TTCATTTTAAGAAAAATAATCATGATTGGAGATGGTGCCACAGATATGGAAGCCTGTCCTCCTGCTGATGCTTTCA  
TTGGATTTGGAGGAAATGTGATCAGGCAACAAGTCAAGGATAACGCCAAATGGTATATCACTGATTTTGTAGAGC  
TGCTGGGAGAACTGGAAGAATAACATCCATTGTCGTACAGCTCCAAACAAC TTCAGATGAATTTTACAAGTTAT  
ACAGATTGATACTGTTTGCTTACAGTTGCCTATTACAAC TTGCTATAGAAAAGTTGGTACAAATGATCTGTACTTT  
AAACTACAGTTAGGAATCCTAGAAGATTGCTTTTTTTTTTTTTTTTAACTGTAGTTCCAGTATTATATGATGACTA  
TTGATTTCTTGAGAGGTTTTTTTTTTTTTTTGAGACAGAATCTTGCTCTGTTGCCCAGGCTGGAGTGCAGTGGCG  
CGGTCTCGGCTCACTGCAAGCTCTGCCTCCCAGGTTACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGA  
CTACAGGCACCCGCCACCACATCCGGCTAATTTTTTTGTATTTTTTAGTAGAGACGGGGTTTGACCGTGTTAGCCAG  
GATGGTCTTGATCTCCTGACCTTGTGATCCGCCTGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCTTGGGCCA  
CCGCGCCCAGCCAATGTCCTAGAGAGTTTTGTGATCTGAATTCCTTATGTATATTGTAGCTATATTTCATACAA  
AGTGCTTTAAGTGTGGAGAGTCAATTAAACACCTTTACTCTTAGAAATACGGATTCGGCAGCCTTCAGTGAATAT  
TGGTTTCTCTTTGGTATGTCAATAAAAGTTTATCCGTATGTCAGAACGGATTTGTGG

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**FIGURE 2274**

CGAGAAGACCCGGATAGTTCCTCCCGGCCACGCCGCGCCGGCTCTGGGCACTCAGCATCGTTTCCTTTTCCTCCG  
CTGGAGCAGCTATGGCGGCGGTGAAGACCCTGAACCCCAAGGCCGAGGTGGCCCGAGCGCAGGCGGCGCTGGCGG  
TCAACATCAGCGCAGCGCGGGGTCTGCAGGACGTGCTAAGGACCAACCTGGGGCCCAAGGGCACCATGAAGATGC  
TCGTTTCTGGCGCTGGAGACATCAAACCTTACTAAAGACGGCAATGTGCTGCTTCACGAAATGCAAATTC AACACC  
CAACAGCTTCCTTAATAGCAAAGGTAGCAACAGCCCAGGATGATATAACTGGTGATGGTACGACTTCTAATGTCC  
TAATCATTGGAGAGCTGCTGAAACAGGCGGATCTCTACATTTCTGAAGGCCTTCATCCTAGAATAATCACTGAAG  
GATTTGAAGCTGCAAAGGAAAAGGCCCTTCAGTTTTTGGAGAAGTCAAAGTAAGCAGAGAGATGGACAGGGAAA  
CACTTATAGATGTGGCCAGAACATCTCTTCGTACTAAAGTTCATGCTGAACCTGCAGATGTCTTAACAGAGGCTG  
TAGTGGACTCCATTTTGGCCATTAAAAAGCAAGATGAACCTATTGATCTCTTCATGATTGAGATCATGGAGATGA  
AACATAAATCTGAAACTGATACAAGCTTAATCAGAGGGCTTGTTTTGGACCACGGAGCACGGCATCCTGATATGA  
AGAAAAGGTGGAGGATGCATACATCCTCACTTGTAACGTGTCATTAGAGTATGAGAAAACAGAAGTGAATTCTG  
GCTTTTTTTACAAGAGTGCAGAAGAGAGAGAAAACTCGTGAAAGCTGAAAGAAAATTCAATTGAAGATAGGGTTA  
AAAAAATAATAGAACTGAAAAGGAAAGTCTGTGGCGATTGAGATAAAGGATTTGTTGTTATTAATCAAAAGGGAA  
TTGACCCCTTTTCCTTAGATGCTCTTTCAAAGAAGGCATAGTCGCTCTGCGCAGAGCTAAAAGGAGAAATATGG  
AGAGGCTGACTCTTGCTTGTGGTGGGTAGCCCTGAATTCTTTGACGACCTAAGTCCTGACTGCTTGGGACATG  
CAGGACTTGATATGAGTATACATTGGGAGAAGAGAAGTTTACCTTTATTGAGAAATGTAACAACCCCTCGTTCTG  
TCACATTATTGATCAAAGGACCAATAAGCACACACTCACTCAGATCAAAGATGCAGTGAGGGACGGCTTGAGGG  
CTGTCAAAAATGCTATTGATGATGGCTGTGTGGTTCCAGGTGCTGGTGCCGTGGAAGTGGCAATGGCAGAAGCCC  
TGATTAAACATAAGCCCAGTGTAAGGGCAGGGCACAGCTTGAGTCCAAGCATTTGCTGATGCATTGCTCATTA  
TTCCCAAGGTTCTTGCTCAGAACTCTGGTTTTGACCTTCAGGAAACATTAGTTAAAATTCAAGCAGAACATTGAG  
AATCAGGTCAGCTTGTTGGTGTGGACCTGAACACAGGTGAGCCAATGGTGGCAGCAGAAGTAGGCGTATGGGATA  
ACTATTGTGTAAAGAAACAGCTTCTTCACTCCTGCACTGTGATTGCCACCAACATTCTCTTGGTTGATGAGATCA  
TGCGAGCTGGAATGTCTTCTCTGAAAGGTTGAATTGAAGCTTCCTCTGTATCTGAATCTTGAAGACTGCAAAGTG  
ATCCTGAGGATTACAGCTGTGGAATTTTGTCCAAGCTTCAAATAATTTTGAAGAAATTTTCCCATATGAAAAA  
AGGAGAGAACACTGGCATCTGTTGAAATTTGGAAGTTCTGAAATTATAGTATTTTAAAAATTGCACTGAAGTGT  
ATACACATAAAGCAGGTCTTTTATCCAGTGAACAGGATGTTTTGCTTTAGCAGCAGTGACATAAAATTCATGTT  
AGATAAGCATATGTTACTTACCTTGTTATTAAATATTTCTTGAAAAGCAGGCCACGAAGG

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**FIGURE 2275**

MAAVKTLNPKAEVARAQAALAVNISAAAGLQDVLRTNLGPKGTMKMLVSGAGDIKLTGDGNVLLHEMQIQHPTAS  
LIAKVATAQDDITGDGTTSNVLIIGELLKQADLYISEGLHPRIITEGFEEAKEKALQFLEEVKVSREMDRETLID  
VARTSLRTKVHAEADVLTEAVVDSILAIAKKQDEPIDLFMIEIMEMKHKSETDTSILIRGLVLDHGARHPDMKKRV  
EDAYILTCNVSLEYEKTEVNSGFFYKSAEEREKLVKAERKFIEDRVKKIIELKRKVCGDSDKGFVVINQKGIDPF  
SLDALSKEGIVALRRARRNMERLTLACGGVALNSFDDLSPDCLGHAGLVYEYTLGEEKFTFIEKCNNPRSVTLL  
IKGPNKHTLTQIKDAVRDGLRAVKNAIDDGCVVPGAGAVEVAMAEALIKHKPSVKGRAQLGVQAFADALLIIPKV  
LAQNSGFDLQETLVKIQAEHSESGQLVGVDLNTGEPMVAAEVGVWDNYCVKKQLLHSCVTIATNILLVDEIMRAG  
MSSLKG

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**FIGURE 2276**

CAGACACACTGTGACGGCTGCCTGAAGCTAGTGAGTCGCGGCGCCGCGCACTGGTGGTTGGGTCAGTGCCGCGCG  
CCGATCGGTCGTTACCGCGAGGCGCTGGTGGCCTTCAGGCTGGACGGCGCGGGTCAGCCCTGGTTCGCCGGCTTC  
TGGGTCTTTGAACAGCCGCGATGTCGATCTTCACCCCCACCAACCAGATCCGCCTAACCAATGTGGCCGTGGTAC  
GGATGAAGCGTGCCGGGAAGCGCTTCGAAATCGCCTGCTACAAAAACAAGGTCGFCGGCTGGCGGAGCGGCGTGG  
AAAAAGACCTCGATGAAGTTCTGCAGACCCACTCAGTGTTTGTAAATGTTTCTAAAGGTCAGGTTGCCAAAAAGG  
AAGATCTCATCAGTGCGTTTGGAACAGATGACCAAACCTGAAATCTGTAAGCAGATTTTGACTAAAGGAGAAGTTC  
AAGTATCAGATAAAAGAAAGACACACACAACCTGGAGCAGATGTTTAGGGACATTGCAACTATTGTGGCAGACAAAT  
GTGTGAATCCTGAAACAAAGAGACCATAACCCGTGATCCTTATTGAGAGAGCCATGAAGGACATCCACTATTTCGG  
TGAAAACCAACAAGAGTACAAAACAGCAGGCTTTGGAAGTGATAAAGCAGTTAAAAGAGAAAATGAAGATAGAAC  
GTGCTCACATGAGGCTTCGGTTCATCCTTCCAGTCAATGAAGGCAAGAAGCTGAAAGAAAAGCTCAAGCCACTGA  
TCAAGGTCATAGAAAGTGAAGATTATGGCCAACAGTTAGAAATCGTATGTCTGATTGACCCGGGCTGCTTCCGAG  
AAATTGATGAGCTAATAAAAAAGGAAACTAAAGGCAAAGGTTCTTTGGAAGTACTCAATCTGAAAGATGTAGAAG  
AAGGAGATGAGAAATTTGAATTGACACCCATCAATCTCTTCACCTCTAAAACAC

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**FIGURE 2277**

MSIFTPTNQIRLTNVAVVRMKRAGKRFEIACYKNKVVGWRSGVEKDLDEVLQTHSVFVNVSKGQVAKKEDLISAF  
GTDDQTEICKQILTKGEVQVSDKERHTQLEQMFRDIATIVADKCVNPETKRPTYVILIERAMKDIHYSVKTNKST  
KQQALEVIKQLKEKMKIERAHMRLRFILPVNEGKKLKEKLKPLIKVIESEDYGQOLEIVCLIDPGCFREIDELIK  
KETKGKGSLEVLNLKDVEEGDEKFE

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**FIGURE 2278**

GACACTATCCGTGCGGCCAGGCGGAGACCCGGAGGACCGAAGCTTCCGGACGACGAGGAACCGCCCAACATGGCC  
TCGGAGAGTGGGAAGCTTTGGGGTGGCCGGTTTGTGGGTGCAGTGGACCCCATCATGGAGAAGTTCAACGCGTCC  
ATTGCCTACGACCGGCACCTTTGGGAGGTGGATGTTCAAGGCAGCAAAGCCTACAGCAGGGGCCTGGAGAAGGCA  
GGGCTCCTCACCAAGGCCGAGATGGACCAGATACTCCATGGCCTAGACAAGGTGGCTGAGGAGTGGGCCAGGGC  
ACCTTCAAACCTGAACCTCCAATGATGAGGACATCCACACAGCCAATGAGCGCCGCCTGAAGGAGCTCATTGGTGCA  
ACGGCAGGGAAGCTGCACACGGGACGGAGCCGGAATGACCAGGTGGTCACAGACCTCAGGCTGTGGATGCGGCAG  
ACCTGCTCCACGCTCTCGGGCCTCCTCTGGGAGCTCATTAGGACCATGGTGGATCGGGCAGAGGCGGAACGTGAT  
GTTCTCTTCCCGGGGTACACCCATTTCAGAGGGGCCAGCCCATCCGCTGGAGCCACTGGATTCTGAGCCACGCC  
GTGGCACTGACCCGAGACTCTGAGCGGCTGCTGGAGGTGCGGAAGCGGATCAATGTCCTGCCCTGGGGAGGTGG  
GGCCATTGCAGGCAATCCCCTGGGTGTGGACCGAGAGCTGCTCCGAGCAGAACTCAACTTTGGGGCCATCACTCT  
CAACAGCATGGATGCCACTAGTGAGCGGGACTTTGTGGCCGAGTTCCTGTTCTGGGCTTCGCTGTGCATGACCCA  
TCTCAGCAGGATGGCCGAGGACCTCATCCTCTACTGCACCAAGGAATTCAGCTTCGTGCAGCTCTCAGATGCCTA  
CAGCACGGGAAGCAGCCTGATGCCCCAGAAGAAAAACCCCGACAGTTTGGAGCTGATCCGGAGCAAGGCTGGGCG  
TGTGTTTGGGCGGTGTGCCGGGCTCCTGATGACCCTCAAGGGACTTCCCAGCACCTACAACAAAGACTTACAGGA  
GGACAAGGAAGCTGTGTTTGAAGTGTGAGACTATGAGTGCCGTGCTCCAGGTGGCCACTGGCGTCATCTCTAC  
GCTGCAGATTACCAAGAGAACATGGGACAGGCTCTCAGCCCCGACATGCTGGCCACTGACCTTGCCATTACCT  
GGTCCGCAAAGGGATGCCATTCCGCCAGGCCACGAGGCCTCCGGGAAAGCTGTGTTTCATGGCCGAGACCAAGGG  
GGTCGCCCTCAACCAGCTGTCACTGCAGGAGCTGCAGACCATCAGCCCCCTGTTCTCGGGCGACGTGATCTGCGT  
GTGGGACTACGGGCACAGTGTGGAGCAGTATGGTGCCCTGGGCGGCACTGCGCGCTCCAGCGTCGACTGGCAGAT  
CCGCCAGGTGCGGGCGCTACTGCAGGCACAGCAGGCCTAGGTCCTCCCACACCTGCCCCCTAATAAAGTGGGCGC  
GAG

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**FIGURE 2279**

MASESGKLWGGRFVGAVDPIMEKFNASIAYDRHLWEVDVQGSKAYSRGLEKAGLLTKAEMDQILHGLDKVAEEWA  
QGTfKLNSNDEDIHTANERRLKELIGATAGKLHTGRSRNDQVVTDLRLWMRQTCSTLSGLLWELIRTMVDRAEAE  
RDVLFPGYTHLQRAQPIRWSHWILRAIAGNPLGVDRELLRAELNFGAITLNSMDATSERDFVAEFLFWASLCMTH  
LSRMAEDLILYCTKEFSFVQLSDAYSTGSSLMPQKKNPDSLELIRSKAGRVFGRCAGLLMTLKGLPSTYNKDLQE  
DKEAVFEVSDTMSAVLQVATGVISTLQIHQENMGQALSPDMLATDLAYYLVRKGMPFRQAHEASGKAVFMAETKG  
VALNQLSLQELQTISPLFSGDVICVWDYGHVSVEQYGALGGTARSSVDWQIRQVRALLQAQQA



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**FIGURE 2280**

CTCTTTCCCATCTTGCAAGATGGCAGGTGAAAAAGTTGAGAAGCCAGATACTAAAGAGAAGAAACCCGAAGCCAA  
GAAGGCTGATGCTGGTGGCAAGGTGCAAGAGGGTAATCTTAAAGTTAAAAAGCCCAAGAAGGGGAAGCCCTATTG  
CAGCCACAACCCTGTCCTTGTCAGAGGAACTGGCAGGTATTCCCGATCTGCCATGTATTCTAGAAAGGCCATGTA  
TAAGAGGAAGTACTCAGCCGCTAAATCAAAGATTGAAAAGAAAAAGGAGAAGGTTCTTGCAACTGTTACAAAACC  
AGTTGGTGGTGACAAGAATGGTGGTACCCAGGTGGTTAACTTCACAAAATGCCTAGATACTATCCTACCGAAGA  
TGTACCTCGAAAGCTGTTGAGCCACAGCAAAAAACCCTTCAGTCAGCATGTGAGAAAACCTGCAAGCCAGCATTAC  
CCCTGGGACCATTCTGATCATCCTCACTGGATGCCACAGGGGCAAGAGGGTGGTTTTCTGAAGCAGCTGGCTAG  
TGGCTTGTTACTTGTGACTGGACCTCTGGTCCTCAATTGAGTTCCTCTACGAGGAACACACCAGAAATTTGTCAT  
TGCCACCTCAACCAAAATCGATATCAGCAATGTAAAAATCCCAAAACATCTTACTGATGCTTACTTCAAGAAGCA  
GCAGCTGCGGAAGCCCAGACACCAGGAAGGCAACATCTTCGACACAGAAAAAGAGAAATATGAGATTACAGAGCA  
GCGCAAGATTGATCAGAAAGCTGTGGACTCACAATTTTACCAAAAGTCAAAGCTATTTCTCAGCTCCAGGGCTA  
CCTGCGATCTGTGTTTGGCCTGACGAATGGAATTTATCCTCACAAATTGGTGTCTAAATGTCTTAAGAACCTAA  
TTAAATAGCTAAGTAC

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**FIGURE 2281A**

CGCTTCCTGCGCCTCTTCAGGTCACCGCTTGCTCTAGTTCCCAGGCTTTGGCCTCTAGTGGATGAGAATCACCGA  
GTCTGCGGGGCTGGACGCTGACCGCCCGGGCCAGCACCTAGGCGGGCGGGAGCTGTGCGGGCCAGGGTTTCGCGCG  
GGCCGGGTAGAGGCTCGAGCCGGGACCCCGAGCGTGAACCCCGGAGCCAGCGGCGCTGGGGCCAGAGGGGCCAG  
GCGGGAGGTGGTGGCGGAGGCGAAGGGGCGACGGGACCTGGGCCTGGCCCGTGTGTCTCCTCGGCGGCCTGGCGC  
CGGCCGTGCTGTACGGTGAGCCCCAGGGAGGCGGATCTGGGCCCCGAGAAGGACACCCGCTGGATTTGCCCCG  
TAGGCCCCGGCCCGGGCCCCCTCGGGAGCAGAACAGCCTTGGTGAGGTGGACGGGAGGGGACTTCGCGAGCAGACGC  
GCGCGCCAGCGACAGCAGCCCCGCCCGGCCTCTCGGGAGCCGTGGGGCAGAGGCTGCAGAGCCCCAGGAGGGGGC  
CAGTGTCAATCAAAGATGTGGCTGTGGATTTACCCAGGAGGAGTGGTGGCAACTGGACCCTGATGAGAAGATAA  
CATACGGGGATGTGATGTTGGAGAACTACAGCCATCTAGTTTCCCTGGCTTATGAGGTGGCAACATCTTGTACTT  
CGGAGATCTGAAGCCGAGCAACTTGCCCAAGTCCTTCTTCTTTCCCATTAACAAGATATGATATCACCAAGCCA  
AACGTCATCATTAAAGTTGGAGCAGGGAGAGGAGCTGTGGATAACGGGAGGTGAATTTCCATGTCAACATAGTCCA  
GCCCTTCACATCCTCAGCCGAAGATCTCACTTCCCTCCAGAGGCCCTTGCTGACTGACCCCTCAGGGATTGTGGG  
ACTTTACCAAATCGGTTTGTAAATAACACCTAGAAGACGCTATCCGATCCATCAGGCCAGTATTCTGTCTGGGG  
GTACTTTCCACCGTGTGCTGGAATGGTTATCACAAGAAGGCTGTGCTGTCCCCTCGCAACTCCAGGATGGTGTGT  
AGCCAGTGACTGTGAGGATCGCCCCCTCTGACAGAAGATTTTCGCGTCTGCGATACCAGAGCAGATAATCAGC  
TCAACACTGTCTCACCATCAAGTAACGCCCCAGACCCATGTGCAAAGGAGACAGTACTGAGTGCCTCAAAGAG  
AAGGAGAAGAAAAGGACAGTGGAGGAAGAAGACCAATATTCCTTGATGGCCAGGAAAATAAAGAAGGCGCCAT  
GATAGCAGTGGCAGTGGACATTGAGCATTGAGCCCTGGTGGCCAATGGAGTCCCCGCTTCTTTTGTGCCTAAG  
CCTGGGTCTCTGAAGAGAGGCCCTCAATTCTCAGAGCTCAGATGACCACTTGAATAAGAGATCCCGAAGCTCTTCC  
ATGAGCTCCTTGACAGGCGCTTACGCAAGTGGCATCCCTAGCTCCAGCCGAATGCCATTACCAGTTCCTACAGC  
TCCACTCGAGGCATCTCAGCTCTGGAAGAGAAATGGCCCCAGTTTCATCACCCCTTCTCTAGCCCAGCCTCCTCC  
CGCTCCCAGACACCGGAGAGGCCAGCAAAGAAAATAAGAGAAGAGGAGCTGTGTTCATCATTCCAGTTCTTCAACT  
CCATTGGCAGCAGACAGGGAGTCCCAGGGAGAAAAGGCTGCAGATACAACCCCAAGGAAGAAACAAAACCTCGAAT  
TCTCAGTCTACACCTGGCAGCTCTGGGCAGCGTAAGCGGAAAGTTAGCTGCTGCCTTCTCGGCGAGGGGAACAG  
CTGACCTTGCCCTCCACCTCCCCAGCTTGGCTATTGATCACTGCCGAGGACCTAGACTTAGAGAAGAAGGCTTCA  
TTACAGTGGTTCAACCAGGCCCTTGGAGGACAAGAGCGATGCTGCCTCGAACTCTGTCACTGAGACCCACCTATC  
ACTCAGCCTTCATTTACCTTTACCCTGCCTGCTGCTGCACCTGCCTCCCCACCCACCTCCCTCCTGGCCCCAAGC  
ACCAACCCACTGTTAGAGAGCTTGAAGAAGATGCAGACTCCCCGAGCCTGCCACCTGCCAGAACTCTGCTGGA  
GCAGCAACCACTGAGGCCCTCTCACCTCCAAAGACACCCAGCCTCCTACCCCGCTGGGTTTATCAGAGTCAGGG  
CCGCCAGGGCTGCTCCCCAGCCCCCTCTTTGACTCCAAACCCCGACCACTTGTGTTGGGCTGATCCCTGCTCCA  
TCCATGGTACCAGCCACTGACACCAAGGCACCTCCAACCCCTTCAGGCAGAGACGGCTACCAACCCCAAGCCACA  
TCTGCCCCGTCCCCCGCCCCAAGCAAAGCTTCTGTTTGGAAACACAGAACCTCACCTTCCAGCCCTGCCGCC  
CCTGCTGCATCTTACGACCTCCCATGTTCAAGCCATTTTACGGCTCCACCCAAGAGTGAGAAGGAAGGCCCC  
ACACCGCTGGCCCTTCAGTCACAGCCACAGCGCCCTCCAGCTCCTCCCTCCCCACGACCACCAGCACCACAGCC  
CCGACCTTCCAGCCTGTCTTTAGCAGCATGGGGCCACCTGCATCTGTGCCCTTGCTGCTCCCTTCTTCAAGCAG  
ACAATACTCCCGCCACTGCTCCCACCACAAGTCCCCGCTCTTCACTGGCCTGGCCAGCGCCACCTCTGCTGTG  
GCTCCCATCACCTCTGCCAGTCCATCCACAGACTCTGCTTGAAGCCTGCGTTTGGCTTTGGCATAAACAGTGTG  
AGCAGCAGCAGTGTGAGTACCACGACCAGCACCAGCCACTGCCGCTCACAGCCTTTCTCTCGGGGCGCCCCAG  
GCCTCTGCTGCCAGCTTACCCCGGCCATGGGCTCCATATTCAGTTTGGCAAACCTCCTGCCTTGCCACAACC  
ACCACAGTCACCACTTCAGCCAGTCCCTGCACACTGCCGTGCCAACGGCCACCAGCAGCAGCGCTGCCGACTTT  
AGTGGTTTTTGGCAGCACCTCGCCACCTCCGCCCCGGCCACCAGCAGCCAGCCACTCTGACGTTAGTAACAG  
AGCACCCACAGTTCAACATTCCCTTTGGCTCAAGCGCCAAGTCCCCGCTCCCATCATATCCGGGAGCCAACCC  
CAGCCCGCATTTGGGGCGCTGAGGGGCGAGCCACCGGGGGCGCCAAGCCGGCCCTTGCCCCAGCTTTGGCAGC  
TCTTTCACTTTTGGAACTCTGCAGCCCCGGCTGCTGCACCCACACCTGCACCTCCGTCCATGATCAAGGTGCTG  
CCTGCGTACGTGCCTACGCCCATCCATCCTATCTTTGGCGGTGCCACGCACTCGGCGTTTGGGTGAAAGCCAG  
GCTTCGGCCTTCGGCGCTCCCGCCAGCTCACAGCCCGCCTTTGGCGGCTCCACTGCTGTCTTCTTCGGTGCAGCC  
ACCAGCTCCGGCTTTGGAGCCACCACCCAGACCGCCAGCAGCGGGAGCAGCAGCTCGGTGTTTGGCAGCACAACA  
CCATCACCCCTTACGTTTGGGGGTTTGGCGAGCCCCCGCTGGCAGTGGGAGCTTTGGGATCAATGTGCCACCCCA

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**FIGURE 2281B**

GGCTCCAGCACCACCACCGGAGCTTTCAGCTTTGGAGCAGGACAGAGTGGGAGCACAGCCACCTCCACCCCTTC  
GCAGGGGGCTTAGGTGAGAACGCCCTGGGCACCACCGGCCAGAGCACACCGTTTGCCTTCAACGTGAGCAGCACA  
ACTGAGAGCAAACCTGTGTTTGGAGGCACCGCCACCCACCTTTGGTCTGAACACCCCTGCGCCTGGAGTGGGC  
ACATCAGGCAGCAGCCTCTCCTTTGGGGCATCCTCAGCACCCGCCCAAGGCTTTGTTGGTGTTCACCTTTCGGC  
AACACTTTTGCTCACCAGCAAGAACACAGCCCCGAGGAAGGGACCCAATAACCTTTCAAAACGAAACTGCTGCCT  
GCGGTGAGGGCCAGGGTCTTCCACGGAGAGGACAGGCATCTTCCTTTCCACCAGGAAGGAGTGAGCCCGGAGC  
CTCTGCTATGTGCAAGGCGGTGTGCAAGCACC GGCTGCAGCTTTTTGCTCTCTTCTTCTCTTTGGGGCTGGGCT  
GGGTGTGCGTTCTGGTGTGATGCTTTGGCCTGTGAGGCTGAGCTAGAGAAATGTAGATGTTAGATGTGCCAGTA  
CCATCCTGCGCCTCCCAAGCATGCCCCACTCACTCACGTGGCATCTCGACCCGTTCAATTACAGCAACGAAGA  
AGCCACCGCTAAGCGTGGTCTTGGGGGAAGCCCGGAGGCAGTGCTCGGCACCCGGGAACGTGCTCAGGCCTCGGT  
GGGGCCGGGCAGGCAGGGCGGGAGCTAGCCTGCAAGAGAAACAGCCCCAATGCTGGGTAAAGAGAGCAGTTCACCC  
CATCCCCCTCCACGACCCTGGCGCAGCCCTGTACCTGAAGGCGCCCGGTTCTGCTGCAGCGCATCTTGAC  
CATGTCTTCATTCTCTCCTGGCAGAGGGAGCACATGGAGTAGACGAGCCGCTGCAGGGAAGGGAAAGTGAGCGC  
GTGGCACAGGGCTCGCTGCTGGAACCCTGCCAGGGCATGCAGACGCACCGGGCTAGGTGTCCCTGCCCCGGGCTC  
CTCCAGCTGTCTGCTCGGCATACCTAAGGAAAAGCGTGTCTCGGTTACACAGCTTCACAGGCTGCCTCAGTCCTG  
AAATCCTCGCTCCTGAAATCCTCGCTTCACAGAGGAGAACTTTTGCTCCAGGGTCCCAAGCCATTAAAGTGTC  
GAACTAAGACCAAAACAGATGACTCCAGGTCTAAGCTGCTGTGGACCTCTGAGTCCCTCAGCCACGCCTTCTCAC  
CATCTCACCCGAGCCACTGCAGGAAGGATCCAGCAGGACATAGTGACCTCACGATAGCGGGATCTAAGGGGA  
GACCGCCAGGAAGTCTCTCCTCAGCCAGCTCACAGCAGGAGACGCCAGCCAGGCCAGCAGCGTGGCCATGGATGC  
CAGCCGCTGGCATCCAGGTCAAAGGCAAAGATCTTCCTAGGGCAGAGGGCAGAGCAGGGGTGAGCTGAGCATGC  
ATGGAGCAGCTAAGGGCTGTACAGCTGACACAGACAACCAGAACATGCAGGTTAAGCCAGGACACACAATATT  
GAAACAGCCTATATTTAAAGGGCCAGGGTCAGAGGTAAGTGGCTGGGGTCTCTGCCCCAAGGGCTAAGGGATC  
CACATCTCACACCTGCAGTGGGGAAAAGCTTAGCTTGGGGCAAATACCGTGAACTACTTTGGTGCAGCAGGAAAGA  
GTTAAGCGAAAGTCATCCTTTCAGCCTTCATTACCCACTGAAAGGCACAAAATCAAACCCCATGTCTCTCTCTC  
CTCTGTGGCACTCACCTTGGTTCTTCAGAAGAGCAGCCAAGTGACTGGTCTTTATTGCCTGGGGTGGCACAGG  
CATCCATGACATGGGAGCCTGGCGGGGGTCCAGCAGCATGGCTGGGAGACAGCTGGCCTGGCAGGCAGAACACAG  
GGGCCGGGTAAACAGAGACCCCAAGGCTAGGCCCTTCCCGTGCCTACACATTCTTCCCTTTTCTATTCTCTTGCC  
TACCCTGTCTGCAGAATGAGGTGTCCGGCCCGGTACAGTGGGTGTTTATGCAGATCTGTCTGGGCGGGAAACAC  
CAGCAGCTCCGGCATCAAGGGGTCCAGGAGAAAATGCTTCCCTTGAGGGCTCGTAAGTCATCGAGGCTGCCAGG  
GAAGAACCATTTCATTTCATCTTCTGAAATTTCTCCCTGCCAGGCCCTATTTCACGGTCCATTTCATGCAACAAA  
TGTTACCACAGCTATGGGAGAAATCAACAGGGTGATAAGGGAATCCGGGATCCGCAGTTGAGGGAATGGGTTGTCA  
AGCCAGACTTATGGGTGAGGAGCCCCCTCTACTGTTTACCAGCAGTGGGAGCCTGGGCAAGTGATTCAATCTCAA  
GCCCCACTGGCATCTCTGTAAATAGTAGGTGTGAGGATTCAATGAGCCAATATATCCAAGATACTTACGTGCCA  
CAATTTAATAAATGTTAGCTATTCCTGTTGAAGCATAACCTTGGAGAAAGGTTACTTTACAGGGGGGTGAGGAGT  
GGGGAAGTGAGAGCTGAGCTCATCTTGATGGATGAGGAGTTAGTCATGTGAGGCGCTTAGGTTAAACTACATT  
CACTATAACTCAGTAAAGCAGTCCCGCCACTCTCCGACCCATGCAGAAATAGGCCTAGGGAGTCACATGTCTCA  
GTTCAGAAATCTATCGAAGTGGCAGAGCTGGAATTCAAACACAAGCAGCCGTTCTCTGCTATTCCACCCTGGTGT  
CCAAGCAACATGGTAGGGCAGAAGGAAGAGGATCTTACAAAGAGTAAGGGAAAGGGAGAGGGGCAGAGGCTGCTT  
CTCAGAGCCACCAAAGGACAAAATAAGACAGGTGTGAGCCAGTGGAGGAGGCACGGGGCAGAGACCAGCCACTG  
TTGCTGGCACGCTGGTGCACGTAGCACTGTGGCAGATGGACCTGGAGAGGAAGCAGGAGGGACAGCACAATGGAG  
CCAAGAAAGGACTTAGCATGGCCGGGCGCGGTGGTTTCATGCCTGTAATCCCAGCATTTTGGGAGGCCAAGGTGGG  
CAGATCACCTGAGGTGAGGAGTTTGGAGCCAGCCTGGCCAACATGGAGAAATCCCGTCTCTACTAAAAATACAAA  
ATTAGCCAGGCATGGTGTGCTGCTGCAATCCTGTAGGGAAAAGAAAGAGAGATCAGACTGTTACTGTGTCTG  
TGTAAGAAAGGGAAGACATAAGAAATTCATTTTGACCTGTACCTTGAACAATTGGTTGGCTGAGATGCTGTTAAT  
TTGTGACTTTGCCCCAAATTTGAGCTCACAAAACATGTGTTGTATGGAATCAAGGTTTAAAGGATCTAGGGCTG  
TGCAGGACATGCCTTGTTAATAAAACGTTTACAAGC

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**FIGURE 2282**

GCCAGGGAGCACTGGAGGCCACCCAGTCATGGGGGACACCTTCATCCGTCACATCGCCCTGCTGGGCTTTGAGAA  
GCGCTTCGTACCCAGCCAGCACTATGTTACATGTTTCCTGGTGAAATGGCAGGACCTGTCGGAGAAGGTGGTCTACC  
GGCGCTTCACCGAGATCTACGAGTTCATAAAACCTTAAAAGAAATGTTCCCTATTGAGGCAGGGGCGATCAATC  
CAGAGAACAGGATCATCCCCACCTCCCAGCTCCCAAGTGTTTGACGGGCAGCGGGCCGCCGAGAACCACCAGG  
GCACACTTACCGAGTACTGCGGCACGCTCATGAGCCTGCCCACCAAGATCTCCCGCTGTCCCCACCTCCTTGACT  
TCTTCAAGGTGCGCCCTGATGACCTCAAGCTCCCCACGGACAACCAGACAAAAAAGCCAGAGACATACTTGATGC  
CCAAAGATGGCAAGAGTACCGCGACAGACATCACCGGCCCCATCATCCTGCAGACGTACCGCGCCATTGCCAACT  
ACGAGAAGACCTCGGGCTCCGAGATGGCTCTGTCCACGGGGGACGTGGTGGAGGTCGTGGAGAAGAGCGAGAGCG  
GTTGGTGGTTCTGTCAGATGAAAGCAAAGCGAGGCTGGATCCCAGCATCCTTCCTCGAGCCCCCTGGACAGTCCTG  
ACGAGACGGAAAGACCCTGAGCCCAACTATGCAGGTGAGCCATACGTGCCCATCAAGGCCTACACTGCTGTGGAGG  
GGGACGAGGTGTCCCTGCTCGAGGTTGAAGCTGTTGAGGTAATTCACAAGCTCCTGGACGGCTGGTGGGTTCATCA  
GGAAAGACGACGTACAGGCTACTTCCCGTCCATGTACCTGCAAAAGTCAGGGCAAGACGTGTCCAGGCCCAAC  
GCCAGATCAAGCGGGGGGCGCCGCCCGCAGGTCGTCCATCCGCAACGTGCACAGCATCCACCAGCGGTGCGCGGA  
AGCGCCTCAGCCAGGACGCCATCGCCGCAACAGCGTCCGTTTTCTGCAGCAGCGACGCCGCCAGGCGCGGCCGG  
GACCGCAGAGCCCCGGGAGCCCGCTCGAGGAGGAGCGGCAGACGCAGCGCTCTAAACCGCAGCCGGCGGTGCCCC  
CGCGGCCGAGCGCCGACCTCATCCTGAACCGCTGCAGCGAGAGCACCAAGCGGAAGCTGGCGTCTGCCGTCTGAG  
GCTGGAGCGCAGTCCCCAGCTAGCGTCTCGGCCCTTGCCGCCCGTGCCTGTATATACGTGTTCTATAGAGCCTG  
GCGTCTGGACGCCGAGGGCAGCCCCGACCCCTGTCCAGCGCGGCTCCCGCCACCCTCAATAAATGTTGCTTGGAG  
TGGACCGAGGCTCTGCAGGAATGCAGGGAGGGCCGGGCTCCGCCCCAGGGTTATTTCTAAGTTGA

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**FIGURE 2283**

MYMFLVKWQDLSEKVVYRRFTEIYEFHKTLEKEMFPIEAGAINPENRIIPHLPAKWFWDGQRAAENHQGTLTEYCG  
TLMSLP TKISRCPHLLDFFKVRPDDLKLPTDNQTKKPETYLMPKDGKSTATDITGP IILQTYRAIANYEKTSGSE  
MALSTGDVVEVVEKSESGWWFCQMKAKRGWIPASFLEPLDSPDETEDPEPNYAGEPYVAIKAYTAVEGDEVSLLE  
GEAVEVIHKLLDGWWVIRKDDVTGYFPSMYLQKSGQDVSQAQRQIKRGAPPRSSIRNVHSIHQSRKRRLSQDAY  
RRNSVRFLQORRRQARPGPQSPGSPLEERQTQRSKPQPAVPPRPSADLILNRCSESTKRKLASAV

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**FIGURE 2284**

CCCCGCGCTGCGCGGAGCAGGGACCAGGCGGTTGCGGCGGCGACAGCCATGGCGCGCGCTGGCAGGTCTGGCC  
GCGGGCTTGCAAGTCCC GCGGGTCGCGCCCAGCCCAGACTCGGACTCGGACACAGACTCGGAGGACCCGAGTCTC  
CGGCGCAGCGCGGGCGGCTTGCTCCGCTCGCAGGTTCATCCACAGCGGTCACTTCATGGTGTCTGCGCCGCACAGC  
GACTCGCTGCCCCGGCGGCGCGACCAGGAGGGGTCCGTGGGGCCCTCCGACTTCGGGCGCGCAGTATCGACCCC  
ACACTCACACGCCTCTTCGAGTGCTTGAGCCTGGCCTACAGTGGCAAGCTGGTGTCTCCCAAGTGAAGAATTTT  
AAAGGCCTCAAGCTGCTCTGCAGAGACAAGATCCGCCTGAACAACGCCATCTGGAGGGCCTGGTATATCCAGTAT  
GTGAAGCGGAGGAAGAGCCCCGTGTGTGGCTTCGTGACCCCCCTGCAGGGGCCTGAGGCTGATGCGCACCGGAAG  
CCGAGGGCGTGGTCTTGAGGGGGAAGTACTGGAAGCGGCGCATCGAGGTGGTGTGCGGGAATACCACAAGTGG  
CGCATCTACTACAAGAAGCGGCTCCGTAAGCCCAGCAGGGAAGATGACCTCCTGGCCCCCTAAGCAGGCGGAAGGC  
AGGTGGCCGCGCGCGGAGCAATGGTGCAAACAGCTCTTCTCCAGTGTGGTCCCCGTGTGCTGGGGGACCCAGAG  
GAGGAGCCGGGTGGGCGGCAGCTCCTGGACCTCAATTGCTTTTTGTCCGACATCTCAGACACTCTCTTCACCATG  
ACTCAGTCCGGCCCTTCGCCCCCTGCAGCTGCCGCCTGAGGATGCCTACGTCGGCAATGCTGACATGATCCAGCCG  
GACCTGACGCCACTGCAGCCAAGCCTGGATGACTTCATGGACATCTCAGATTTCTTTACCAACTCCCGCTCCCA  
CAGCCGCCCATGCCTTCAAACCTTCCAGAGCCCCCAGCTTCAGCCCCGTGGTTGACTCCCTCTTCAGCAGTGGG  
ACCCTGGGCCCAGAGGTGCCCCCGGCTTCCTCGGCCATGACCCACCTCTCTGGACACAGCCGTCTGCAGGCTCGG  
AACAGCTGCCCTGGCCCCCTTGACTCCAGCGCCTTCCTGAGTTCTGATTTCTCCTTCCTGAAGACCCCAAGCCC  
CGGCTCCACCCCCCTCTGTACCCCCACCTCTGCTGCATTACCCTCCCCCTGCCAAGGTGCCAGGCCTGGAGCCC  
TGCCCCCACCTCCCTTCCTTCCATGGCACCAACCCACTGCTTTGCTGCAGGAAGAGCCTCTCTTCTCTCCAGG  
TTTCCCTTCCCCACCGTCCCTCTGCCCCAGGAGTGTCTCCGCTGCCTGCTCCTGCAGCCTTCCACCCACCCCA  
CAGTCTGTCCCCAGCCCAGCCCCACCCCCCTTCCCCATAGAGCTTCTACCCTTGGGGTATTTCGGAGCCTGCCTTT  
GGGCTTGCTTCTCCATGCCAGAGGAAGCCCCCGCCCCATCCCCTAGGGGACAGAAAGCCAGCCCCCTACC  
TTAGCCCCCTGCCACTGCCAGTCCCCCACCCTGCGGGGAGCAACAACCCCTGCCTCACACAGCTGCTCACAGCA  
GCTAAGCCGGAGCAAGCCCTGGAGCCACCACTTGTATCCAGCACCTCCTCCGGTCCCCAGGGTCCCCGCAGGAG  
ACAGTCCCTGAATTCCCCTGCACATTCTTCCCCCGACCCCGGCCCTACACCGCCCCGGCCACCTCCAGGCCCCG  
GCCACATTGGCCCCCTTCAGGCCCCCTGCTTGTCCCCAAAGCGGAGCGGCTCTACCCCCAGCGCCAGCGGCAGT  
GAACGGCGGCTGTGAGGGGACCTCAGCTCCATGCCAGGCCCTGGGACTCTGAGCGTCCGTGTCTCTCCCCGCAA  
CCCATCCTCAGCCGGGGCGCTCCAGACAGCAACAAGACCGAGAACCGGCGTATCACACACATCTCCGCGGAGCAG  
AAGCGGCGCTTCAACATCAAGCTGGGGTTTGACACCCTTCATGGGCTCGTGAGCACACTCAGTGCCAGCCCAGC  
CTCAAGGTGAGCAAAGCTACCACGCTGCAGAAGACAGCTGAGTACATCCTTATGCTACAGCAGGAGCGTGCGGGC  
TTGCAGGAGGAGGCCCAGCAGCTGCGGGATGAGATTGAGGAGCTCAATGCCGCCATTAACCTGTGCCAGCAGCAG  
CTGCCCCGCCACAGGGGTACCCATCACACACCAGCGTTTTGACCAGATGCGAGACATGTTTGATGACTACGTCCGA  
ACCCGTACGCTGCACAACCTGGAAGTTCTGGGTGTTTCAATCCTCATCCGGCCTCTGTTTGAGTCTTCAACGGG  
ATGGTGTCCACGGCAAGTGTGCACACCCTCCGCCAGACCTCACTGGCCTGGCTGGACCACTGCTCTCTGCCC  
GCTCTCCGGCCAACCTGTCTGAATCCCTACGCCAGCTGGGCACATCTACCAGTATCCTGACCGACCCGGGCCGC  
ATCCCTGAGCAAGCCACAGGGCAGTCACAGAGGGCACCTTGGCAAACCTTTATAGTCCCTGGCCAGACCCTGCT  
GCTCACTCAGCTGCCCTGGGGGCTGCTTTCCCTGGGCACGGGCTCCAGGGATCATCTCTGGGCACTCCCTTCCTG  
CCCCAGGCCCTGGCTCTGCCCTTCCCTGGGGGTGGAGCAGGGTCCAGGTTTCACTTGCCACCTCCTGGAGGT  
CAAGAAGAGCAGAGTCCCCGTCCCTGCTCTGCCACTGTGCTCCAGCACCGTGACCTTGGGTGACTCGTCCGCTGT  
CTTTGGACCGCTGTGTTTCAATCTGCAAAATGGGGATGGGGAAGGTTCAATCAGCAGATGACCCCAAGGCTTGG  
CAGCTGTGACATTGGGGGCTAGGCTGGCAACTCCGGGGCTCAACGGTGGAAAGAGGAGGATGCTGTTTATCTG  
TCACCTCCACTTGCTCCCCGACAGGTGGGGCACAGACCTCTGTTTCTGAGCAGAGAAGCAGAAAAGGAGGTTCCC  
TCTCTCTGCTCCTTCACTGCTGACCCAGAGGGGCTGCAGGATGGTTTTCCCTGGGAGAGGCCAGGAGGGCCTGAT  
CCCAGGAGACACCAGGGCCAGAGTGACCACAGCAGGGCAGGCATCATGTGTGTGTGTGTGTGTGGATGTGTGTGT  
GTGGGTTTTGTAAAGAATTCTTGACCAATAAAAGCAAAAACCTGTCTGCTGGTTAAAAA

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**FIGURE 2285**

MAGALAGLAAGLQVPRVAPSPDSDSDTSEDPSLRRSAGGLLRSQVIHSGHFMVSSPHSDSLPRRRDQEGSVGPS  
DFGPRSIDPTLTRLFECLSLAYSGKLVSPKWKNFKGLKLLCRDKIRLNNAIWRAWYIQYVKRRKSPVCGFVTPLO  
GPEADAHRKPEAVVLEGNYWKRRIEVVMREYHKWRIYYKKRLRKPSREDDLLAPKQAEGRWPPPEQWCKQLFSSV  
VPVLLGDPEEEFPGGRQLLDLNCFLSDISDTLFTMTQSGPSPLQLPPEDAYVGNADMIQPDLTPLQPSLDDFMDIS  
DFFTNSRLPQPPMPSNFPEPPSFSPVVDLSLSSGTLGPEVPPASSAMTHLSGHSRLQARNSCPGPLDSSAFLSSD  
FLLPEDPKPRLPPPPVPPPLLHYPPPAKVPGLEPCPPPPFPPMAPPTALLQEEPLFSRPFPPFTVPPAPGVSPLP  
APAAFPPTPQSVSPAPTFFPIELLPLGYSEPAFGPCFSMPRGKPPAPSPRGQKASPPTLAPATASPTTAGSNN  
PCLTQLLTAAKPEQALEPPLVSSTLRSPGSPQETVPEFPCTFLPPTPAPTTPRPPPGPATLAPSRPLLVPKAER  
LSPPAPSGSERRLSGDLSSMPGPGTLSVRVSPPQPILSRGRPDSNKTENRRITHISAEQKRRFNIKLGFDTLHGL  
VSTLSAQPSLVSKATTLOKTAEYIILMLQQERAGLQEEAQQLRDEIEELNAAINLCQQQLPATGVPITHQRFQDM  
RDMFDDYVRTRLHNWKFVVSILIRPLFESFNGMVSTASVHTLRQTSALWLDQYCSLPALRPTVLNSLRQLGTS  
TSILTDPGRIPEQATRAVTEGTLGKPL

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**FIGURE 2286**

CCCCGCGCTGCGCGGAGCAGGGACCAGGCGGTTGCGGCGGCGACAGCCATGGCGCGCGCTGGCAGGTCTGGCC  
GCGGGCTTGCAAGTCCCGCGGGTCGCGCCCAGCCCAGACTCGGACTCGGACACAGACTCGGAGGACCCGAGTCTC  
CGGCGCAGCGCGGGCGGCTTGCTCCGCTCGCAGGTCATCCACAGCGGTCACTTCATGGTGTCTGCGCCGACAGC  
GACTCGCTGCCCCGGCGGCGCGACCAGGAGGGTCCGTGGGGCCCTCCGACTTCGGGCGCGCAGTATCGACCCC  
ACACTCACACGCCTCTTCGAGTGCTTGAGCCTGGCCTACAGTGGCAAGCTGGTGTCTCCCAAGTGAAGAATTTT  
AAAGGCCTCAAGCTGCTCTGCAGAGACAAGATCCGCCTGAACAACGCCATCTGGAGGGCCTGGTATATCCAGTAT  
GTGAAGCGGAGGAAGAGCCCCGTGTGTGGCTTCGTGACCCCCCTGCAGGGGCCTGAGGCTGATGCGCACCCGGAAG  
CCGGAGGCCGTGGTCTTGAGGGGGAAGTACTGGAAGCGGCGCATCGAGGTGGTGTGCGGGAATACCACAAGTGG  
CGCATCTACTACAAGAAGCGGCTCCGTAAGCCCAGCAGGGAAGATGACCTCCTGGCCCCCTAAGCAGGCGGAAGGC  
AGGTGGCCGCCCGCGGAGCAATGGTGCAAACAGCTCTTCTCCAGTGTGGTCCCGTGTCTGCTGGGGGACCCAGAG  
GAGGAGCCGGGTGGGCGGCAGCTCCTGGACCTCAATTGCTTTTTGTCCGACATCTCAGACACTCTCTTCACCATG  
ACTCAGTCCGGCCCTTCGCCCCCTGCAGCTGCCGCTGAGGATGCCTACGTCGGCAATGCTGACATGATCCAGCCG  
GACCTGACGCCACTGCAGCCAAGCCTGGATGACTTCATGGACATCTCAGATTTCTTTACCAACTCCCGCCTCCCA  
CAGCCGCCCATGCCTTCAAACCTCCAGAGCCCCCAGCTTCAGCCCCGTGGTTGACTCCCTCTTCAGCAGTGGG  
ACCTTGGGCCCAGAGGTGCCCCCGGCTTCCTCGGCCATGACCCACCTCTCTGGACACAGCCGTCTGCAGGCTCGG  
AACAGCTGCCCTGGCCCCCTTGACTCCAGCGCCTTCTGAGTTCTGATTTCCTCCTTCTGAAGACCCCAAGCCC  
CGGCTCCCACCCCTCCTGTACCCCCACCTCTGCTGCATTACCCTCCCCCTGCCAAGGTGCCAGGCCTGGAGCCC  
TGCCCCCACCTCCCTTCCCTCCCATGGCACCACCCACTGCTTTGCTGCAGGAAGAGCCTCTCTTCTCTCCAGG  
TTTCCCTTCCCCACCGTCCCTCCTGCCCCAGGAGTGTCTCCGCTGCTGCTCCTGCAGCCTTCCCACCCACCCCA  
CAGTCTGTCCCCAGCCCAGCCCCACCCCTTCCCCATAGAGCTTCTACCCTTGGGGTATTTCGGAGCCTGCCTTT  
GGCCTTGCTTCTCCATGCCAGAGGCAAGCCCCCGCCCCATCCCCTAGGGGACAGAAAGCCAGCCCCCTACC  
TTAGCCCCTGCCACTGCCAGTCCCCCACCCTGCGGGGAGCAACAACCCCTGCCTCACACAGCTGCTCACAGCA  
GCTAAGCCGGAGCAAGCCCTGGAGCCACCCTTGTATCCAGCACCCCTCCTCCGGTCCCCAGGGTCCCCGCAGGAG  
ACAGTCCCTGAATTCCCCTGCACATTCTTCCCCCGACCCCGGCCCTACACCGCCCCGGCCACCTCCAGGCCCG  
GCCACATTGGCCCCCTTCCAGGCCCTGCTTGTCCCCAAGCGGAGCGGCTCTCACCCCCAGCGCCAGCGGCAGT  
GAACGGCGGCTGTGAGGGGACCTCAGTCCATGCCAGGCCCTGGGACTCTGAGCGTCCGTGTCTCTCCCCGCAA  
CCCATCCTCAGCCGGGGCGCTCCAGACAGCAACAAGAACCGGCGTATCACACACATCTCCGCGGAGCAGAAGCGG  
CGCTTCAACATCAAGCTGGGGTTTGACACCCCTTCATGGGCTCGTGAGCACACTCAGTGCCAGCCCAGCCTCAAG  
GTGAGCAAAGCTACCACGCTGCAGAAGACAGCTGAGTACATCCTTATGCTACAGCAGGAGCGTGCGGGCTTGAG  
GAGGAGGCCAGCAGCTGCGGGATGAGATTGAGGAGCTCAATGCCGCCATTAACCTGTGCCAGCAGCAGCTGCCC  
GCCACAGGGGTACCCATCACACACCAGCGTTTTGACCAGATGCGAGACATGTTTGATGACTACGTCCGAACCCGT  
ACGCTGCACAACCTGGAAGTTCTGGGTGTTTACGATCCTCATCCGGCCTCTGTTTGAGTCCTTCAACGGGATGGTG  
TCCACGGCAAGTGTGCACACCCTCCGCCAGACCTACTGGCCTGGCTGGACCAGTACTGCTCTCTGCCCGCTCTC  
CGGCCAACTGTCTGAACTCCCTACGCCAGCTGGGCACATCTACCAGTATCCTGACCGACCCGGGCGCATCCCT  
GAGCAAGCCACACGGGCAGTCACAGAGGGCACCTTGGCAAACCTTTATAGTCTGGCCAGACCTGCTGCTCAC  
TCAGCTGCCCTGGGGGCTGCTTTCCCTGGGCACGGGCTCCAGGGATCATCTCTGGGCACTCCCTTCTGCCCCAG  
GCCCTGGCTCTGCCCTTCCCTGGGGGGTGGAGCAGGGTCCAGGTTTACACTTGCCACCTCCTGGAGGTCAAGAA  
GAGCAGAGTCCCCGTCCCTGCTCTGCCACTGTGCTCCAGCACCGTGACCTTGGGTGACTCGTCCGCTGTCTTTGG  
ACCGCTGTGTTTTCAATCTGCAAAATGGGGATGGGGAAGGTTCAATCAGCAGATGACCCCCAGGCCCTGGCAGCTG  
TGACATTGGGGGCTAGGCTGGCAACTCCGGGGGCTCAACGGTGGAAGAGGAGGATGCTGTTTATCTGTACCT  
CCACTTGCTCCCCGACAGGTGGGGCACAGACCTCTGTTCTGAGCAGAGAAGCAGAAAAGGAGGTTCCCTCTCTC  
TGCTCCTTCACTGCTGACCCAGAGGGGCTGCAGGATGGTTTCCCTGGGAGAGGCCAGGAGGGCCTGATCCCAGG  
AGACACCAGGGCCAGAGTGACCACAGCAGGGCAGGCATCATGTGTGTGTGTGTGTGTGGATGTGTGTGTGGGT  
TTTGTAAGAATTCTTGACCAATAAAAGCAAAACTGTCTGCTGGTTAAAAA



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**FIGURE 2287**

MAGALAGLAAGLQVPRVAPSPDSDDTDSEDPSLRRSAGGLLRSQVIHSGHFMVSSPHSDSLPRRRDQEGSVGPS  
DFGPRSIDPTLTRLFECISLAYSGKLVSPKWKNFKGLKLLCRDKIRLNNAIWRAWYIQYVKRRKSEVCGFVTPLQ  
GPEADAHRKPEAVVLEGNYWKRRIEVVMREYHKWRIYYKKRLRKPSREDDLLAPKQAEGRWPPPEQWCKQLFSSV  
VPVLLGDPEEEPGGRQLLDLNCFLSDISDTLFTMTQSGPSPLQLPPEDAYVGNADMIQPDLTPLQPSLDDFMDIS  
DFFTNSRLPQPPMPSNFPEPPSFSPVVDSLFSSGTLGPEVPPASSAMTHLSGHSRLQARNSCPGPLDSSAFLSSD  
FLLPEDPKPRLPPPPVPPPLLHYPPPAKVPGLEPCPPPPFPPMAPPTALLQEEPLFSRFPFPPTVPPAPGVSPLP  
APAAFPPTPQSVSPAPTFFPIELLPLGYSEPAFGPCFSMPRGKPPAPSPRGQKASPPTLAPATASPPTTAGSNN  
PCLTQLLTAAKPEQALEPPLVSSSTLLRSPGSPQETVPEFPCTFLPPTPAPTPPRPPPGPATLAPSRPLLVPKAER  
LSPPAPSGSERRLSGDLSSMPGPGTLSVRVSPQPILSRGRPDSNKNRRITHISAEQKRRFNIKLGFDTLHGLVS  
TLAQPSLVSKATTLOKTAEYILMLQQERAGLQEEAQQLRDEIEELNAAINLCQQQLPATGVPI THQRFQMRD  
MFDDYVRTRLHNWKFWVFSILIRPLFESFNGMVSTASVHTLRQTS LAWLDQYCSLPALRPTVLNSLRQLGTSTS  
ILTDPGRIPEQATRAVTEGTLGKPL

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**FIGURE 2288**

GACGGCAAATGGCGGACTTCGACACCTACGACGATCGGGCCTACAGCAGCTTCGGCGGCGGCAGAGGGTCCCGCG  
GCAGTGCTGGTGGCCATGGTTCCCGTAGCCAGAAGGAGTTGCCACAGAGCCCCCTACACAGCATACGTAGGAA  
ATCTACCTTTCAATACGGTTCAGGGCGACATAGATGCTATCTTTAAGGATCTCAGCATAAGGAGTGTACGGCTAG  
TCAGAGACAAAGACACAGATAAAATTTAAAGGATTCTGCTATGTAGAATTCGATGAAGTGGATTCCCTTAAGGAAG  
CCTTGACATACGATGGTGCACCTGTTGGGCGATCGGTCACTTCGTGTGGACATTGCAGAAGGCAGAAAACAAGATA  
AAGGTGGCTTTGGATTACAGAAAAGGTGGACCAGATGACAGAGGAATGGGTAGCTCTCGAGAATCTAGAGGTGGAT  
GGGATTCCCGGGATGACTTCAATTCTGGCTTCAGGGATGACTTCTTAGGGGGCAGGGGAGGTAGTCGCCCAGGCG  
ACCGGCGAACAGGCCCCCCCCATGGGCAGCCGCTTCAGAGATGGCCCTCCCTCCGTGGATCCAACATGGATTTC  
GAGAACCCACAGAAGAGGAAAGAGCACAGAGACCACGACTCCAGCTTAAACCTCGAACAGTCGCGACGCCCCCTCA  
ATCAAGTAGCCAATCCCAACTCTGCTATCTTCGGGGGTGCCAGGCCTAGAGAGGAAGTCGTTCAAAGGAGCAAG  
AATGAGCCCTGCGGTTGGGAGGGAATGGGGCGTGGGGGGTTAGAGCAGGACCACAGCCTGGTGAGTCCCCGGGCAG  
CCGTCTGCAGCCGCCACTCCTGCGCCTGCCATTGGCCTCCTCACAGCGGAAACACAGCTTGTGAGTGCATGTCA  
GCTGTTAACAAGTGGTTTTTTAGTACATTCTGGGCTTTGCTGTATCTATCTAGTGCCTGTTTGTGCGTTTTTTTCT  
TTCTTCCGCTGCTTCCCCATTTTCTTCTGTCCTTTTTCTCCTGCTCCTTGTTTTCCAGCAGCACATGGGGTTC  
CTCGGAGGAGCAGAGGTGGCCGCCGTGGGGGGCGTTTTGGGCTGCGGTGCTGCGTCATTTTTCTTTGCTTTCTC  
TTTACTTTAGACACTGGCCCAACTCCAGGCGTTTTCTTTTATTCCCTCAGTGCTTCTCTTCTGACCTGCATGTTG  
AGTTCTGTATTGCTGGGGCTTCCAACAAAAACCAGAGTCACTGACAGAGGGAACAGCAGAGACCTTGTGTTGATT  
CAGCTGTGATGGATATAGAGAATCAGAGGCACCTTGTTTTCAAACTAGGATAAAAAATATCTGCAGGGTCCTTTC  
CATTCTATTTAGAGGGAGTCTGGCTCCATGACCCCTCCCGAGTGGACTGTCCAAGCAGATAGGCTCACACGA  
GAAACAGTGAGGCTGAAAGGGGGGGCTATGGAAGAGCGGTAGGGAGTCCACGGAGAAGATGCAGTGAATGCTTGC  
ATGCATTACACGTTGTGTGTGCCAGCTAGTTCACTCCTTTTCGCCGTGCGTGGTGGAGGCTGGCCTCTCTGGCT  
GGGTGCAGTGAATGGCCAGCGGGTTTTTTTTCTGCTGGGCCAAGGCGCTTTGGGGGTGGAGGGGGTGGTGTGGT  
GCTGCACTGGGCTGACTGCGGCGCTGACGCAGCGTTTTCCCCCATCCCTGTTGCCTGTGTGTTGTGTGGATCTGT  
TCCTAGTATAGGCAACATAATGAGATACTGTGCTTCCACCTCCCCCTCAGTTTACAGAGCCAAAATGGGTCTAGAA  
TCTGGCACTTTACTCATTTCCTTTGATAAATTGTACTATGCAGAGCTGTCAGGAACCTTCAGATAGCAGTAGAGG  
ACTGCAGCTGTCTAGGTCTGCGGCCACATCTTGGGGACACACTGGACTGTTCCCATGTGCAGGGTTCAGCAGTTA  
TGTTGGGAGTGCTAGGGGTTAGGCTTTTGAGCTTGAACGCCTGCGTGTGAACAGATGAAAAATCCTTCAGTACCCA  
AGTCCCAGTCTGTCTATGGGGAGCAGTTTGGGGCGCGCCGGCAGCAGGAGCCTGGGAAAGAGGCCCTCGCCAGG  
TGATGGCAGGGCCAGGGTGGCCTGGGGCACCAGCGGAATGTGCTTAGTATTTGGTCACCAGCCGTCATCCTGGG  
CTTTTCTACTGTGTCTTTGTTACAAGGCCTCAGCAATCCACAGAACTCTCTCTCCTTCCCTTCCACCTGTCAGCTT  
CTCTGCTTCTGAGATAAGAACCATTGTGTAAACCAACACTTAACTTCAGAAAGACATGCATTATGTGGTGTAA  
TCAAACCCGATGCTTTCAGATGACCTACTTACATCTTCAATGTGGATAAGATAAAGAACAAAACACATGCATCTA  
AACTGCTGGGCAATCCAGTTGACTTTTAAATGTAAGAATGGAATTCCAAACACTTAACACATTACAGCTATATGAC  
AGAAAGTAAATCTATGGATATGGTATTTTGTGAATGATCTTTTAAATAAAAAGAAAACCTTACGTAATATTT

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**FIGURE 2289**

MADFDTYDDRAYSSFGGGRGSRGSAGGHGSRSQKELPTEPPYTAYVGNLPPFNTVQGDIDAIKDLIRSIVRLVRD  
KDTDKFKGFCYVEFDEVDSLKEALTYDGALLGDRSLRVDIAEGRKQDKGGFGFRKGGPDDRGMGSSRESRGGWDS  
RDDFNSGFRDDFLGGRGGSRPGDRTGPPMGSFRDGPPLRGSNMDFREPTTEERAQRPRQLKPRTVATPLNQV  
ANPNSAIFGGARPREEVVQKEQE

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**FIGURE 2290**

GACGGCAAATGGCGGACTTCGACACCTACGACGATCGGGCCTACAGCAGCTTCGGCGGCGGCAGAGGGTCCCGCG  
GCAGTGCTGGTGGCCATGGTTCCCGTAGCCAGAAGGAGTTGCCACAGAGCCCCCTACACAGCATACGTAGGAA  
ATCTACCTTTCAATACGGTTCAGGGCGACATAGATGCTATCTTTAAGGATCTCAGCATAAGGAGTGACGGCTAG  
TCAGAGACAAAGACACAGATAAAATTTAAAGGATTCTGCTATGTAGAATTTCGATGAAGTGGAATCCCTTAAGGAAG  
CCTTGACATACGATGGTGCACCTGTTGGGCGATCGGTCACTTCGTGTGGACATTGCAGAAGGCAGAAAACAAGATA  
AAGGTGGCTTTGGATTTCAGAAAAGGTGGACCAGATGACAGAGGCTTCAGGGATGACTTCTTAGGGGGCAGGGGAG  
GTAGTCGCCCAGGGCAGCCGCGAACAGGCCCCCCCATGGGCAGCCGCTTCAGAGATGGCCCTCCCTCCGTGGAT  
CCAACATGGATTTTCAGAGAACCACAGAAGAGGAAAGAGCACAGAGACCACGACTCCAGCTTAAACCTCGAACAG  
TCGCGACGCCCCCTCAATCAAGTAGCCAATCCCAACTCTGCTATCTTCGGGGGTGCCAGGCCCTAGAGAGGAAGTCG  
TTCAAAGGAGCAAGAATGAGCCTGCGGTTGGGAGGGAATGGGGCGTGGGGGGTTAGAGCAGGACCACAGCCTGG  
TGAGTCCCCGGGCAGCCGTCCTGCAGCCGCCACTCCTGCGCCTGCCATTGGCCTCCTCACAGCGGAAACACAGCT  
TGTGAGTGCATGTCAGCTGTTAACAAGTGTTTTTAGTACATTCTGGGCTTTGCTGTATCTATCTAGTGCCTGTT  
TGTGCGTTTTTTCTTTCTTCCGTGCTTCCCCATTTCTTCTGTCTTTTTCTCCTGCTCCTTGTTTTCCAG  
CAGCACATGGGGTTCCTCGGAGGAGCAGAGGTGGCCGCCGTGGGGGGCGTTTGGGCTGCGGTGCTGCGTCATTT  
TTCCTTTGCTTTCTCTTTACTTTAGACACTGGCCCAACTCCAGGCGTTTTCTTTTATTCCCTCAGTGCTTCTCTT  
CTGACCTGCATGTTGAGTTCTGTATTGCTGGGGCTTCCAACAAAACCAGAGTCACTGACAGAGGGAACAGCAGA  
GACCTTGTTGGTATTTCAGCTGTGATGGATATAGAGAATCAGAGGCACCTTGTTTTCACTAGGATAAAAATAT  
CTGCAGGGTCTTTCCATTCTTATTTAGAGGGAGTCTGGCTCCATGACCCCTCCCGAGTGGACTGTCCAAGCA  
GATAGGCTCACACGAGAAACAGTGAGGCTGAAAGGGGGGGCTATGGAAGAGCGGTAGGGAGTCCACGGAGAAGAT  
GCAGTGAATGCTTGATGCATTCACACGTGTGTGTGTGCCAGCTAGTTCACTCCTTTTCGCCGTGCGTGGTGGAGG  
CTGGCCTCTCTGGCTGGGTGCAGTGAATGGCCAGCGGGTTTTCTTTCTGCTGGGCCAAGGCGCTTTGGGGGTGGA  
GGGGGT  
GTTGTGTGGATCTGTTCCCTAGTATAGGCAACATAATGAGATACTGTGCTTCCCACCTCCCTTTCAGTTTCAGAGCC  
AAAATGGGTCTAGAATCTGGCACTTTACTCATTTCTTTTGATAAATTGTACTATGCAGAGCTGTTCAGGAACCTTC  
AGATAGCAGTAGAGGACTGCAGCTGTCTAGGTCTGCGGCCACATCTTGGGGACACACTGGACTGTTCCCATGTGC  
AGGGTTTCAGCAGTTATGTGGGAGTGCTAGGGGTTAGGCTTTTGAGCTTGAACGCTGCGTGTGAACAGATGAAAA  
ATCCTTCAGTACCCAAAGTCCAGTCTGTCTATGGGGAGCAGTTTGGGGCGGCCGCGCAGCAGGAGCCTGGGAAA  
GAGGCCCTCGCCAGGTGATGGCAGGGCCAGGGTGGCCTGGGGCACCCAGCGGAATGTGCTTAGTATTTGGTCACC  
AGCCGTCATCCTGGGCTTTTCTACTGTGTCTTGTACAAGGCCTCAGCAATCCACAGAACTCTCTCTCTCTCTCT  
TCCACCTGTCAGCTTCTCTGCTTCTGAGATAAGAACCATTGTGTGAACACCAACACTTAACCTCAGAAAGACATG  
CATTATGTGGTGTAATCAAACCCGATGCTTTTCAGATGACCTACTTACATCTTCAATGTGGATAAGATAAAGAACA  
AAACACATGCATCTAAACTGCTGGGCAATCCAGTTGACTTTTAAATGTAAGAATGGAATCCAAACACTTAACAC  
ATTTCAGCTATATGACAGAAAGTAAATCTATGGATATGGTATTTTGTGAATGATCTTTTAAATAAAAGAAAACCTT  
ACGTAATATTT

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**FIGURE 2291**

MADFDTYDDRAYSSFGGGRGSRGSAGGHGSRSQKELPTEPPYTAYVGNLPFNTVQGDIDAIFKDLSIRSVRLVRD  
KDTDKFKGFCYVEFDEVDSLKEALTYDGALLGDRSLRVDIAEGRKQDKGGFGFRKGGPDDRGFRDDFLGGRGGS  
PGDRRTGPPMGSRFRDGFPLRGSNMDFREPTTEERAQRRLQLKPRTVATPLNQVANPNSAIFGGARPREEVVQK  
EQE

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**FIGURE 2292**

GGGAAGAGGAGGCGCGAGAATGGAGGTGGAGGCCGTCTGTGGTGGCGCGGGCGAGGTGGAGGCCAGGACTCTGA  
CCCTGCCCCCTGCCTTCAGCAAGGCCCCCGGCAGCGCCGGCCACTACGAACTGCCGTGGGTGAAAAATATAGGCC  
AGTAAAGCTGAATGAAATTGTCGGGAATGAAGACACCGTGAGCAGGCTAGAGGTCTTTGCAAGGGAAGGAAATGT  
GCCCCAACATCATCATTGCGGGCCCTCCAGGAACCGGCAAGACCACAAGCATTCTGTGCTTGGCCCGGGCCCTGCT  
GGGCCCAGCACTCAAAGATGCCATGTTGGAACCTCAATGCTTCAAATGACAGGGGCATTGACGTTGTGAGGAATAA  
AATTAAATGTTTGCTCAACAAAAAGTCACCTCTCCCAAAGGCCGACATAAGATCATCATCTCTGGATGAAGCAGA  
CAGCATGACCGACGGAGCCCAGCAAGCCTTGAGGAGAACCATGGAAATCTACTCTAAACCCTCGCTTCGCCCT  
TGCTTGTAATGCTTCGGATAAGATCATCGAGCCCATTCAGTCCCGCTGTGCAGTCCTCCGGTACACAAAGCTGAC  
CGACGCCCAGATCCTCACCAGGCTGATGAATGTTATCGAGAAGGAGAGGGTACCCTACACTGATGACGGCCTAGA  
AGCCATCATCTTCACGGCCCAGGGAGACATGAGGCAGGCGCTGAACAACCTGCAGTCCACCTTCTCAGGATTG  
CTTCATTAACAGTGAGAACGTGTTCAAGGTCTGTGACGAGCCCCACCCACTGCTGGTAAAGGAGATGATCCAGCA  
CTGTGTGAATGCCAACATTGACGAAGCCTACAAGATTCTTGCTCACTTGTGGCATCTGGGCTACTCACCAGAAGA  
TATCATTTGGCAACATCTTTCGAGTGTGTAAAACCTTCCAAATGGCAGAATACCTGAAACTGGAGTTTATCAAGGA  
AATTGGATACACTCACATGAAAATAGCGGAAGGAGTGAACCTCTTTTGCAGATGGCAGGCCTCCTGGCAAGGCT  
GTGTGAGAAGACAATGGCCCCGGTGGCCAGTTAGAGCAGAGACTTCACTGACTGACTTACAGGTGCCCTATTCTG  
AGGTACAGGAGCCGCGGCTTTCTGATGGGGGAAAATGCCGCCTTAGGCTGGAGCCAACATGACTGTCCTTTAAAC  
TCCAGTGGCTGGCCAGGCACGGTAGCTCACGCCTGTAATCCCAACACTTTGGGAGGCCGAGGCAGGTGGATCACC  
TGAGGTGAGAAGTTCAAGACCAGCCTGGCCAACATGGGGAAACCCTGTCTTTACTAAAAATATAAAATTAGCTG  
GGTGTGGTGGCGGGCACCTGTAATCCCAGCTACTCGGGAGGCTGTGGCAGGAGAATCGCTTGAAACCAGGAGGTG  
GAGGTGTCAGTGAGCCAAGATCACACCATTGCACTCCAGCCTGGGCGACAGAGTCTCCATCTGGGGAAAAAATT  
AAATAAATAAACTCCCG

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**FIGURE 2293**

TAAATGGCAGCCAAATGGAGGGTGGTGTTCGCGGGGCTGGGATTAGGGCCGGGGCGAATGGCTGGCAATCTTACT  
GGGATTACAGAACAAAGAGCCTCCCCGCGCTCCCGCTCTCCGCTCCTCTCCCCGCGCCGCCCCGCCCTCCGCCGC  
AGCCCCGCGCCGGGGTGGGGGCGCCGAGCGCCAGCCCCCGGGCCGGCCGATTCCCCCCCCGCGCCCCCTCCCCG  
CGCTCCCTCCCCGCCCTCGCCGCGCCGCCGTCTCGCTCCCTCTGCCTCTCCTTCCCCATTCTCCCGGATTA  
ATTAAGGAGGCAGCGGCAGGAGGCTGAGTCCTGGCCGCGGGCCGGGGCGCCGCTGGCAGGAGCGCTTGG  
GGATCCTCCAAGGCGACCATGGCCTTGCTGGGTAAGCGCTGTGACGTCCCCACCAACGGCTGCGGACCCGACCGC  
TGGAATCCGCGTTACCCGCAAAGACGAGATCATCACCAGCCTCGTGTCTGCCTTAGACTCCATGTGCTCAGCG  
CTGTCCAAACTGAACGCCGAGGTGGCCTGTGTGCGCGTGCACGATGAGAGCGCCTTTGTGGTGGGCACAGAGAAG  
GGGAGAATGTTCTGAATGCCCGGAAGGAGCTACAGTCAGACTTCCTCAGGTTCTGCCGAGGGCCCCCGTGGAAAG  
GATCCGGAGGCAGAGCACCCCAAGAAGGTGCAGCGGGGCGAGGGTGGAGGCGTAGCCTCCCTCGGTCTCTCCCTG  
GAACATGGCTCAGATGTGTACCTTCTGCGGAAGATGGTAGAGGAGGTGTTTGATGTTCTTTATAGCGAGGCCCTG  
GGAAGGGCCAGTGTGGTGCCACTGCCCTATGAGAGGCTGCTCAGGGAGCCAGGGCTGCTGGCCGTGCAGGGGCTG  
CCCGAAGGCCTGGCCTTCCGAAGGCCAGCCGAGTATGACCCCAAGGCCCTCATGGCCATCCTGGAACACAGCCAC  
CGCATCCGCTTCAAGCTCAAGAGGCCACTTGAGGATGGCGGGCGGGACTCGAAGGCCCTGGTGGAGCTGAACGGT  
GTCTCCCTGATTCCCAAGGGGTACGGGACTGTGGCCTGCATGGCCAGGCCCCCAAGGTGCCACCCAGGACCTG  
CCCCCAACCGCCACCTCCTCCTCCATGGCCAGCTTCTGTACAGCACGGCGCTCCCCAACACGCCATCCGAGAG  
CTCAAGCAGGAAGCACCTTCTGCCCCCTTGCCCCAGCGACCTGGGCCTGAGTCGGCCCATGCCAGAGCCCAAG  
GCCACCGGTGCCCAAGACTTCTCCGACTGTTGTGGACAGAAGCCCACTGGGCCTGGTGGGCCTCTCATCCAGAAC  
GTCCATGCCTCCAAGCGCATTCTCTTCTCCATCGTCCATGACAAGTCAGAGAAGTGGGACGCCCTTCATAAAGGAA  
ACCGAGGACATCAACACGCTCCGGGAGTGTGTGCAGATCCTGTTTAAACAGCAGATATGCGGAAGCCCTGGGCCTG  
GACCACATGGTCCCCGTGCCCTACCGGAAGATTGCCTGTGACCCGGAGGCTGTGGAGATCGTGGGCATCCCGGAC  
AAGATCCCCCTTCAAGCGCCCCCTGCACTTATGGAGTCCCAAGCTGAAGCGGATCCTGGAGGAGCGCCATAGTATC  
CACTTCATCATTAAAGAGGATGTTTGATGAGCGAATTTTACAGGGAACAAGTTTACCAAGACACCACGAAGCTG  
GAGCCAGCCAGCCCCGCCAGAGGACACCTCTGCAGAGGTCTCTAGGGCCACCGTCCTTGACCTTGCTGGGAATGCT  
CGGTGAGACAAGGGCAGCATGTCTGAAGACTGTGGGCCAGGAACCTCCGGGGAGCTGGGCGGGCTGAGGCCGATC  
AAAATTGAGCCAGAGGATCTGGACATCATTAGGTACCGTCCAGACCCCTCGCCAACCTCTGAGGAAATGACA  
GACTCGATGCCTGGGCACCTGCCATCGGAGGATTCTGGTTATGGGATGGAGATGCTGACAGACAAAGGTCTGAGT  
GAGGACGCGCGGCCGAGGAGAGGCCCTGGAGGACAGCCACGGTGACGTGATCCGGCCCCCTGCGGAAGCAGGTG  
GAGCTGCTCTTCAACACACGATACGCCAAGGCCATTGGCATCTCGGAGCCCGTCAAGGTGCCGTACTCCAAGTTT  
CTGATGCACCCGAGGAGCTGTTTGTGGTGGGACTGCCTGAAGGCATCTCCCTCCGCAGGCCCAACTGCTTCGGG  
ATCGCCAAGCTCCGGAAGATTCTGGAGGCCAGCAACAGCATCCAGTTTGTATCAAGAGGCCCGAGCTGCTCACT  
GAGGGAGTCAAAGAGCCCATCATGGATAGTCAAGGAAGTGCCTCCTCACTTGGCTTCTCTCCCCCTGCCCTGCCC  
CCAGAGAGGGATTCCGGGGACCCCTCTGGTGGACGAGAGCCTGAAGAGACAGGGCTTTCAAGAAAATTATGACGCG  
AGGCTCTCACGGATCGACATCGCCAACACACTAAGGGAGCAGGTCCAGGACCTTTTCAATAAGAAATACGGGGAA  
GCCTTGGGCATCAAGTACCCGGTCCAGGTCCCCTACAAGCGGATCAAGAGTAACCCCGGCTCCGTGATCATCGAG  
GGGCTGCCCCCAGGAATCCCGTTCCGAAAGCCCTGTACCTTCGGCTCCCAGAACCTGGAGAGGATTCTTGCTGTG  
GCTGACAAGATCAAGTTCACAGTCACCAGGCCCTTCCAAGGACTCATCCCAAGCCTGATGAAGATGACGCCAAC  
AGACTCGGGGAGAAGGTGATCCTGCGGGAGCAGGTGAAGGAATCTTCAACGAGAAATACGGTGAGGCCCTGGGC  
CTGAACCGGCCGGTGTGGTCCCTTATAAACTAATCCGGGACAGCCCAGACGCCGTGGAGGTACGGGTCTGCCT  
GATGACATCCCCTTCCGGAACCCCAACACGTACGACATCCACGGCTGGAGAAGATCCTGAAGGCCCGAGAGCAT  
GTCCGATGGTCATCATTAAACAGCTCCAACCTTTGCAGAAATCTGCAATGATGCCAAGGTGCCAGCCAAAGAC  
AGCAGATTCCCAAGCGCAAGAGAAAGCGGGTCTCGGAAGGAAATCCGTCTCCTCTTCTCCTCCTCGTCTTCTCT  
TCTCGTCTCTAACC CGGATT CAGTGGCATCGGCCAACAGATCTCACTCGTGCAATGGCCAATGTACATGGTG  
GACTATGCCGGCCTGAACGTGCAGCTCCCGGGACCTCTTAATTACTAGACCTCAGTACTGAATCAGGACCTCACT  
CAGAAAGACTAAAGGAAATGTAATTTATGTACAAAATGTATATTCCGATATGTATCGATGCCTTTTAGTTTTTCC  
AATGATTTTTTACACTATATTCTGCCACCAAGGCCTTTTAAATAAGTAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2294**

MALLGKRCDVPTNGCGPDRWNSAFTRKDEIITSLSALDSMCSALSKLNAEVACVAVHDESAFVVGTEKGRMFLN  
ARKELQSDFLRFRCRGPFWKDPEAEHPKKVQRGEGGGRSLPRSSLEHGSDVYLLRKMVEEVFDVLYSEALGRASVV  
PLPYERLLREPGLLAVQGLPEGLAFRRPAEYDPKALMAILEHSHRIRFKLRPLEDGGRDSKALVELNGVSLIPK  
GSRDCGLHGQAPKVPPQDLPPATSSSMASFLYSTALPNHAIRELKQEAPSCPLAPSDLGLSRPMPEPKATGAQD  
FSDCCGQKPTGPGGPLIQNVHASKRILFSIVHDKSEKWDAFIKETEDINTLRECVQILFNSRYAEALGLDHMVPV  
PYRKIACDPEAVEIVGIPDKIPFKRPCTYGVPKLRILEERHSIHFIKRMFDERIFTGNKFTKDTTKLEPASPP  
EDTSAEVSRA TVLDLAGNARSDKGSMSEDCGPGTSGELGGLRPIKIEPEDLDIIQVTVDPDSPTSEEMTDSMPGH  
LPSEDSGYGMEMLTDKGLSEDA RPEERPVEDSHGDVIRPLRKQVELLFNTRYAKAIGISEPVKVPYSKFLMHPEE  
LFVVGLPEGISLRRPNCFGIAKLRKILEASNSIQFVIKRPPELLTEGVKEPIMDSQGTASSLGFSPPALPPERDSG  
DPLVDESLKRQGFQENYDARLSRIDIAN TLREQVQDLFNKKYGEALGIKYPVQVPYKRIKSNPGSVIIEGLPPGI  
PFRKPCTFGSQNLERILAVADKIKFTVTRPFQGLIPKPEDDANRLGEKVILREQVKELFNEKYGEALGLNRPVL  
VPYKLIRDSPDAVEVTGLPDDIPFRNPNTYDIHRLEKILKAREHVRMVIINQLQPF AEICNDAKVP AKDSSIPKR  
KRKR VSEGNVSSSSSSSSSSSSSNPDSVASANQISLVQWPMYMDYAGLNVQLPGPLNY



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**FIGURE 2295A**

AGGAGGAGGAGGGTGAGAGAGAAGCTGGGAGAGCAGAGAAAAGGGGCCACCGGTGCGCCCCCGCTTCCCCGCAC  
GCGCTCTCCAGCCGCGGCCCGCCCGCTGCCGCGGTACCCCGGCCTCTGCCTCTGTCCCCCAGTGATCGGATCAA  
GGCGCTGAGCGAGGCCCTGCCTGCGGGGCGGCCATGCGGCGGTGACAGGAGCGCGACCGACACGCACGGGCCCT  
CGCCCCCTCTCGCTCCCGTCCGCTCGCCAGCTCCCTCAGCCGAGGCTGCTCCGCGGCGGCCGAGCCCGCGCG  
CGGCCACACTCGCTCCCTCGGCACCCCGGCCCGGAGCTGCCTGGAGGCGGCCGCACTCGGGGATCATGGC  
CCAAGTTGCAATGTCCACCTCCCGTTGAAGATGAGGAGTCTCGGAGAGCAGGATGGTGGTGACATTCTCAT  
GTCAGCTCTCGAGTCCATGTGTAAAGAACTGGCCAAGTCCAAAGCCGAAGTGGCCTGCATTGCAGTGTATGAAAC  
AGACGTGTTTGTCTCGGAAGTGAAGAGGACGTGCTTTTGTCAATACCAGAAAGGATTTTCAAAAAGATTTTGT  
AAAATATTGTGTTGAAGAAGAAGAAAAAGCTGCAGAGATGCATAAAATGAAATCTACAACCCAGGCAAATCGGAT  
GAGTGTAGATGCTGTAGAAATTGAAACACTCAGAAAAACAGTTGAGGACTATTTCTGCTTTTGTATGGGAAAGC  
TTTAGGCAAATCCACAGTGGTACCTGTACCATATGAGAAGATGCTGCGAGACCAGTCGGCTGTGGTAGTGAGGG  
GCTTCCGGAAGGTGTTGCCTTTAAACACCCCGAGAAGTATGATCTTGCAACCCTGAAATGGATTTTGGAGAACAA  
AGCAGGGATTTTCATTTCATCATTAAGAGACCTTTTTTAGAGCCAAAGAAGCATGTAGGTGGTGTGTATGGTAAC  
AGATGCTGACAGGTCAATACTATCTCCAGGTGGAAGTTGTGGCCCATCAAAGTGAAAAGTGAACCCACAGAAGA  
TTCTGGCATTTCCTGGAAATGGCAGCTGTGACAGTAAAGGAAGAATCAGAAGATCCTGATTATTATCAATATAA  
CATTCAAGCAGGCCCTTCTGAAACTGATGATGTTGATGAAAACAGCCCTATCGAAGCCTTTGCAAGGAAGCCA  
CCATTCTTCAGAGGGCAATGAAGGCACAGAAATGGAAGTACCAGCAGAAGATTCTACTCAACATGTCCCTTCAGA  
AACAAGTGAGGACCTGAAGTTGAGGTGACTATTGAAGATGATGATTATTCTCCACCGTCTAAGAGACCAAAGGC  
CAATGAGCTACCGCAGCCACCAGTCCCGGAACCCGCCAATGCTGGGAAGCGGAAAGTGAGGGAGTTCAACTTCGA  
GAAATGGAATGCTCGCATCACTGATCTACGTAAACAAGTTGAAGAATTGTTTGAAAGGAAATATGCTCAAGCCAT  
AAAAGCCAAAGGTCCGGTGACGATCCCGTACCCTCTTTTCCAGTCTCATGTTGAAGATCTTTATGTAGAAGGACT  
TCCTGAAGGAATTCTTTTGAAGGCCATCTACTTACGGAATTCCTCGCCTGGAGAGGATATTACTTGCAAAGGA  
AAGGATTGTTTTGTGATTAAGAAACATGAGCTTCTGAATTCAACACGTGAAGATTTACAGCTTGATAAGCCAGC  
TTCAGGAGTAAAGGAAGAATGGTATGCCAGAATCACTAAATTAAGAAAGATGGTGGATCAGCTTTTCTGCAAAAA  
ATTTGCGGAAGCCTTGGGGAGCACTGAAGCCAAGGCTGTACCGTACCAAAAATTTGAGGCACACCCGAATGATCT  
GTACGTGGAAGGACTGCCAGAAAAACATTCCTTTCCGAAGTCCCTCATGGTATGGAATCCCAAGGCTGGAAAAAAT  
CATTCAAGTGCGCAATCGAATTAAATTTGTTATTAAAGACCAGAACCTTCTGACTCACAGTACCACTGAAGTTAC  
TCAGCCAAGAACGAATACACCAGTCAAGGAAGATTGGAATGTCAGAATTACCAAGCTACGGAAGCAAGTGAAGA  
GATTTTTTAATTTGAAATTTGCTCAAGCTCTTGAGCTCACCGAGGCAGTAAAAGTACCATATCCTGTGTTGAATC  
AAACCCGGAGTTCTTGATGTGGAAGGCTTGCCAGAGGGGATTCCCTTCCGAAGCCCTACCTGGTTTGGAAATTC  
ACGACTTGAAAGGATCGTCCGCGGGAGTAATAAAATCAAGTTTCGTTGTTAAAAAACCTGAACTAGTTATTTCTTA  
CTTGCTCCTGGGATGGCTAGTAAATAAACACTAAAGCTTTGCAGTCCCCAAAAGACCACGAAGTCTGGGAG  
TAATTCAAAGGTTCTGAAATTGAGGTCACCGTGGAAGGCCCTAATAACAACAATCCTCAAACCTCAGCTGTTTCG  
AACCCCGACCCAGACTAACGGTTCTAACGTTCCCTTCAAGCCACGAGGGAGAGAGTTTTCTTTGAGGCCTGGAA  
TGCCAAAATCACGGACCTAAAACAGAAAGTTGAAAATCTCTTCAATGAGAAATGTGGGGAAGCTCTTGGCCTTAA  
ACAAGCTGTGAAGGTGCCGTTCCGCTTATTTGAGTCTTTCCCGGAAGACTTTTATGTGGAAGGCTTACCTGAGGG  
TGTGCCATTCCGAAGACCATCGACTTTTGGCATTCCGAGGCTGGAGAAGATACTCAGAAACAAAGCCAAAATTAA  
GTTTCATCATTAAAAAGCCCGAAATGTTTGAGACGGCGATTAAAGGAGAGCACCTCCTCTAAGAGCCCTCCAGAAA  
AATAAATTCATCACCAATGTTAATACTACTGCATCAGGTGTTGAAGACCTTAACATCATTAGGTGACAATTCC  
AGATGATGATAATGAAAGACTCTCGAAAGTTGAAAAAGCTAGACAGCTAAGAGAACAAGTGAATGACCTCTTTAG  
TCGGAATTTGGTGAAGCTATTGGTATGGGTTTTCTGTGAAAGTTCCCTACAGGAAAATCACAATTAACCCTGG  
CTGTGTGGTGGTTGATGGCATGCCCCGGGGGTGTCCTTCAAAGCCCCCAGCTACCTGGAAATCAGCTCCATGAG  
AAGGATCTTAGACTCTGCCGAGTTTATCAAATTCACGGTCATTAGACCATTTCCAGGACTTGTGATTAATAACCA  
GCTGGTTGATCAGAGTGAGTCAGAAGGCCCGTGATACAAGAATCAGCTGAACCAAGCCAGTTGGAAGTTCCAGC  
CACAGAAGAAATAAAGAGACTGATGGAAGCTCTCAGATCAAGCAAGAACCAGACCCACGTGGTAGACCTCTTC  
CCTCCTAGGCTTAAAGTATCAGTGGTTGAGAAGAGCTTTTTCGGACCTGTTACTACCCCAAGCTGTGTAATATACT  
TGATAACAGAAATACCTTCTATACAAACCTTTTTTCTACTTTTAGATAGAAATGTCTACTTTTTTCAGCAGTTC  
TGTGAATTAAGAGCAGAGTGACTGTGGGTCTGGAATGGCTGGTGTACTTGGGAATGTACTATCAGGATTTTACA

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**FIGURE 2295B**

GCAATGCTGGGAAATGACAGGGGAAATGACAGGAATGAATCTCACCAGATTTTTTATGTACTCAGCAGAGCCTTG  
AGTTACGGTGTTTATTTTCCAATCAAGTGAAGATATCTCCTACTTCTCCTACTGGAACATCTCAGCTTCTGCAGT  
GAAGAAAAATTCCTGTGATAGTTCAGTTCCTTAGTTTTTCTATTTGAAAAAAAAAATCATTAAATGATCCTTT  
GTTACAGGCTCTCCTTAATGACTGAGTGAACAGTTCCTATCTGTATATTTGACTAAACCTTTTCCTAAGCTATCT  
CTCATGGTTCCTATGTTTTTTTATCATAATTAAGCAAAACCATCTGGATCACCTAACAGTCAGAGGTCAGTAT  
CTCAGCGTGTGAATTATAGAGGAAATACAGAGAGAACCTCTTCCACTTTTACTTTTCGTCCAAATAAAATGCATG  
GTGTACCAGAAGTTGAAGATCGGGTTGAGGATTGGGGCTAGCTCGATGACACTAAGGCCCAACATCGCGGGACC  
TGCTGTGGCGCGGATTCTTAGGAACGCTGTTCTAGCCGGCCCCCTCTCCAGGGGTCGCGTGGCCGGCATTATTTT  
CTAGTTCTTCTTGTAACCCCTGAGGTGCCAGCGCGGGGAGTGAGGAGGGGTCAGGGGGCTAAGGATGCAACCTCTG  
ACGTTCTGCGCCTTCCTAGGAGAGTCTTACATGTGTTGAGATTTACAAGCAATGCGAGTTGTAAAATACCAGCT  
CTACAAGAAGCTAGGCTCTGTGACGGCATAGTTTTTCAGTAGCTTTATCACAATATTCACAATGGAGAATTATATG  
ACATGGTAGCAGAAATAGGCCCTTTTATGTGTTGCTTCTATTTTACCTCAAATTGTAGATATAGGGTAATCAATA  
AAATCCATCCATGCCTTTCACACACTAAAAAGTCGGA

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**FIGURE 2296**

MAQVAMSTLPVEDEESSESARMVVTFLMSALESMCKELAKSKAEVACIAVYETDVFVVGTERGRAFVNTRKDFQKD  
FVKYCVEEEEKAAEMHKMKSTTQANRMSVDAVEIETLRKTVEDYFCFCYGKALGKSTVVPVPYEKMLRDQSAVVV  
QGLPEGVAFKHPENYDLATLKWILENKAGISFIIKRPFLEPKKHVGGRVMVTDADRSILSPGGSCGPIKVKTEPT  
EDSGISLEMAAVTVKEESEDPDYYQYNIQAGPSETDDVDEKQPLSKPLQGSHHSSEGNEGTEMEVPAEDSTQHVP  
SETSEDPEVEVTIEDDDYSPPSKRPKANELPOPPVPEPANAGKRKVREFNFEKWNARITDLRKQVEELFERKYAQ  
AIKAKGPVTIPYPLFQSHVEDLYVEGLPEGIPFRPSTYGIPRLERILLAKERIRFVIKKHELLNSTREDLQLDK  
PASGVKEEWYARITKLRKMVDQLFCKKFAEALGSTEAKAVPYQKFEAHPNDLYVEGLPENIPFRSPSWYGIPRLE  
KIIQVGNRIKFVIKRPPELLTHSTTEVTQPRINTPVKEDWNVRITKLRKQVEEIFNLKFAQALGLTEAVKVPYPVF  
ESNPEFLYVEGLPEGIPFRSPTWFGIPRLERIVRGSNKIKFVVKPELVISYLPFGMASKINTKALQSPKRPRSP  
GSNSKVPEIEVTVEGPNNNNPQTSAVRPTQTNGSNVPFKPRGREFSFEAWNAKITDLKQKVENLFNEKCGEALG  
LKQAVKVPFALFESFPEDFYVEGLPEGVPFRPSTFGIPRLEKILRNKAKIKFIKKPEMFETAIKESTSSKSP  
RKINSSPNVNTTASGVEDLNIQVTIPDDDNERLSKVEKARQLREQVNDLFSRKFGAIGMGFPVKVPYRKITIN  
PGCVVVDGMPPGVSFKAPSYLEISSMRRLDSAEFIKFTVIRPFPGLVINNQLVDQSESEGPVIQESAEPQLEV  
PATEEIKETDGSSQIKQEPDPTW

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**FIGURE 2297**

GCGACTTCCTCTTTCCAGTGCATTTAAGGCGCAGCCTGGAAGTGCCAGGGAGCACTGGAGGCCACCCAGTCA**ATGG**  
GGGACACCTTCATCCGTCACATCGCCCTGCTGGGCTTTGAGAAGCGCTTCGTACCCAGCCAGCACTATGTGTACA  
TGTTCTTGGTGAAATGGCAGGACCTGTCGGAGAAGGTGGTCTACCGGCGCTTCACCGAGATCTACGAGTTCCATA  
AAACCTTAAAAGAAATGTTCCCTATTGAGGCAGGGGCGATCAATCCAGAGAACAGGATCATCCCCACCTCCCAG  
CTCCCAAGTGGTTTGACGGGCAGCGGGCCGCCGAGAACCGCCAGGGCACACTTACCGAGTACTGCGGCACGCTCA  
TGAGCCTGCCCACCAAGATCTCCCGCTGTCCCCACCTCCTCGACTTCTTCAAGGTGCGCCCTGATGACCTCAAGC  
TCCCCACGGACAACCAGACAAAAAGCCAGAGACATACTTGATGCCCAAAGATGGCAAGAGTACCGCGACAGACA  
TCACCGGCCCCATCATCCTGCAGACGTACCGCGCCATTGCCAACTACGAGAAGACCTCGGGCTCCGAGATGGCTC  
TGTCACGGGGGACGTGGTGGAGGTCGTAGAGAAGAGCGAGAGCGGTGACACCTCCACCTTACGGGGCTCCTTC  
CCCTGGTGCTCAGGAACCCACAGCCACAAGCCCCCTGCCAAGGCTCAGGCAGCCTTGCCCCCTGGGAGGACTCCGG  
CTCTGTTAGGGGCCCTAAATGTCTCCCCACACTGTGGGTGCGCTTCTGTCTTAGTGTGCACCCCTGTGGTGGCTG  
TGGGCATCTGTGCTTGGCAGGCCGGGGCGGGGCATGTCTGCGTGTCTGTCTGGATGGGTATGGGACCGTCTGTT  
CATTATGAAGTGGGCTCAGAGCTGTGATTCTGTGAGCATGTGTGCATGCATGCATGTGACCTCATTGTCCGGTGT  
GGTGAAGGTGACATTTCAAATCTGAGCATTGGACATCAGTGTGTCTGTGTCCCTGTGTCTCACCATCCCTGAT  
GGCTGCAGGGAGCCGCTGGGCCCTGCCCCTCAGTCACATTCGCGACCTCTGGCACAGGTTGGTGGTTCTGTCAG  
ATGAAAGCAAAGCGAGGCTGGATCCCAGCGTCTTCTCTGAGCCCCTGGACAGTCCTGACGAGACGGAAGACCT  
G

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**FIGURE 2298**

MGDTFIRHIALLGFEKRFVPSQHYVYMFLVKWQDLSEKVVYRRFTEIYEFHKTLEMFPIEAGAINPENRIIPHL  
PAPKWFDGQRAAENRQGTLECYCSTLMSLPTKISRCPHLLDFFKVRPDDLKLPTDNQTKKPETYLMPKD GKSTAT  
DITGP IILQTYRAIANYEKTS GSEMALSTGDVVEVVEKSESGQTSHLTGLLPLVLRNPQPQAPCQSGSLAPGRT  
PALLGALNVLP TLWVAFCLSVHPVAVGICAWQAGAGHVCVFCLDGYGTVC SL

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**FIGURE 2299A**

GAGCCCCAGGGAGGCGGATCTGGGCCCCGAGAAGGACACCCGCTGGATTGCCCCGTAGGCCCCGCCCCGGCCCC  
CTCGGGAGCAGAACAGCCTTGGTGAGGTGGACAGGAGGGGACCTCGCGAGCAGACGCGCGGCCAGCGACAGCAG  
CCCCCCCCGGCCTCTCGGGAGCCGTGGGGCAGAGGCTGCGGAGCCCCAGGAGGGGGCCAGTGTCAATCAAAGATG  
TGGCTGTGGATTTACCCAGGAGGAGTGGCGGCAACTGGACCCTGATGAGAAGATAACATACGGGGATGTGATGT  
TGGAGAACTACAGCCATCTAGTTTCTTGGCTTATGAGGTGGCAACATCTTGTACTTCGGAGATTCTGAAGCCGA  
GCAACTTGCCCCAAGTCTTCTTCTTTTCCCATTAAACAAGATATGATATCACCAAGCCAAACGTCATCATTAAGTT  
GGAGCAGGGAGAGGAGCTGTGGATAACGGGAGGTGAATTTCCATGTCAACATAGTCCAGCCCCCTCACATCCTCAG  
CCGAAGATCTCACTTCGTCCCAGAGGCCTTTGCTGACTGACCCCTCAGGGATCGTGGGACTTTACCAGATCGGTT  
TGTAATAACACCTCGAAGACGCTATCCGATCCATCAGACCCAGTATTCTGTCCGGGGGTACTTCCCACAGTGTG  
CTGGAATGGTTATCACAAGAAGGCTGTGCTGTCCCTCGCAACTCCAGGATGGTGTGTAGCCCAGTGAAGTGTGAG  
GATCGCCCCCTCCTGACAGAAGATTTTACGTTCTGCGATACCAGAGCAGATAATCAGCTCAACACTGTCGTCAAC  
ATCAAGTAATGCCCCAGACCCATGTGCAAAGGAGACTGTACTGAGTGCCCTCAAAGAGAAGAAAGAAAAGGAC  
AGTGGAGGAAGAAGACCAAATATTCCTTGATGGCCAGGAAAATAAAAGAAGGCGCCATGATAGCAGTGGCAGTGG  
ACATTCAGCATTTGAGCCCCCTGGTGGCCAGTGGAGTCCCGCTTCTTTTGTGCCTAAGCCTGGGTCTCTGAAGAG  
AGGCCTCAATTCTCAGAGCTCAGATGACCACTTGAATAAGAGATCCCGAAGCTCTTCCATGAGCTCCTTGACAGG  
CGCTTACACAAGTGGCATCCCTAGCTCCAGCCGCAATGCCATTACCAGTTCTTACAGCTCCACTCGAGGCATCTC  
ACAGCTCTGGAAGAGAAATGGCCCCAGTTCATCACCCCTTCTCTAGCCCAGCCTCATCCCGCTCCAGACACCGGA  
GAGGCCAGCAAAGAAAATAAGAGAAGAAGAGCTGTGTCATCATTCCAGTTCTTCAACTCCATTGGCAGCAGACAA  
GGAGTCCCAGGGAGAAAAGGCTGCAGATACAACCCCAAGGAAGAAACAAAACCTCGAATTCTCAGTCTACACCTGG  
CAGCTCTGGGCAGCGTAAGCGGAAAGTTTCACTGCTGCCTTCTCGGCGAGGGGAACAGCTGACCTTGCCCTCCACC  
TCCCCAGCTTGGCTATTTCGATCACTGCCGAGGACCTAGACTTAGAGAAGAAGGCTTCATTACAGTGGTTCAACCA  
GGCCTTGAGGACAAGAGTGATGCTGCCTCGAACTCTGTCACTGAGACCCACCTACCACTCAGCCTTCATTTAC  
CTTIACCCTGCCTGCTGCTGCAACTGCCTCCCCACCCACCTCCCTCCTGGCCCCAAGCACCAACCCACTGTTAGA  
GAGCTTGAAGAAGATGCAGACTCCCCCGAGCCTGCCACCCCTGCCAGAATCTGCTGGAGCAGCAACCACTGAGGC  
CCTCTCACCTCCAAAGACACCCAGCCTCCTACCCCCGCTGGGTTTATCACAGTCAGGGCCGCCAGGGCTGCTCCC  
CAGCCCCCTCCTTTGACTCCAAACCCCCGACCCTTTGCTGGGGCTGATCCCTGCTCCATCCATGGTACCAGCCAC  
TGACACCAAGGCACCTCCAACCCCTCAAGCAGAGACGGCTACCAAACCCCAAGCCACATCTGCCCCGTCCCCCGC  
CCCCAAGCAAAGCTTCTGTTTGAACACAGAACACCTCACCTTCCAGCCCTGCCGCCCCCTGCTGCATCTTCAGC  
ATCTCCCATGTTTCAAGCCCATTTTACGGCTCCACCCAAGAGTGAGAAGGAAGGCCCCACACCGCCTGGCCCTTC  
AGTCACAGCCACAGCGCCCTCCAGCTCCTCCCTCCCCACGACCACCAGCACCACAGCCCCGACCTTCCAGCCTGT  
CTTTAGCAGCATGGGGCCACCTGCATCTGTGCCCTTGCTGCTCCCTTCTTCAAGCAGACAACCTACTCCCCGCCAC  
TGCTCCCACCACAACCTGCCCCGCTCTTCACTGGCCTGGCCAGCGCCACCTCTGCTGTGGCTCCCATCACCTCTGC  
CAGTCCATCCACAGACTCTGCTTCGAAGCCTGCGTTTGGCTTTGGCATAAACAGTGTGAGCAGCAGCAGTGTGAG  
TACCACGACCAGCACCGCCACTGCCGCCTCACAGCCTTCTCCTTCGGGGCGCCCCAGGCCTCTGCTGCCAGCTT  
CACCCCGCCATGGGCTCCATATTCCAGTTTGGCAAACCTCCTGCCTTGCCCCACAACCACCACAGTCACCACCTT  
CAGCCAGTCCCTGCCCCTGCGGTGCCAACGGCCACCAGCAGCAGCGCTGCCGACTTTAGTGGTTTTTGGCAGCAC  
CCTCGCCACCTCCGCCCCGGCCACCAGCAGCCAGCCACTCTGACGTTTCAAGTAAACGAGCAACCCACAGTTCAA  
CATTCCTTTGGCTCAAGCGCCAAGTCCCCGCTCCCATCATATCCGGGAGCCAACCCCCAGCCCGCATTTGGGGC  
CGCTGAGGGGCAGCCACCGGGGGCGCCAAGCCAGCCCTTACCCCCAGCTTTTGGCAGCTCTTTCACTTTTGGAAA  
CTCTGCAGCCCCGGCCCCGGCTACTGCACCCACACCTGCACCTGCGTCCACGATCAAGATCGTGCTGCGCACGT  
GCCTACGCCCATCCAGCCTACCTTTGGCGGTGCCACGCACTCGGCGTTTGGATTGAAAGCCACGGCTTCCGCCTT  
CGGCGCTCCCGCCAGCTCACAGCCCGCCTTTGGCGGCTCCACTGCTGTCTTCTCCTTCGGTGCAGCCACCAGCTC  
CGGCTTTGGAGCCACCACCAGACCGCCAGCAGCGGGAGCAGCAGCTCGGTGTTTGGCAGCACAACACCATCACC  
CTTACGTTTGGGGGTTCCGGCAGCCCCCGCTGGCAGTGGGAGCTTTGGGATCAACGTGGCCACCCAGGCTCCAG  
CGCCACCACCGGAGCTTTCAGCTTTGGAGCAGGACAGAGTGGGAGCACAGCCACCTCCACCCCTTTCAGAGGGGG  
CTTAGGTCAGAACGCCCTGGGCAACACCGGCCAGAGCACACCGTTTGCTTCAACGTGGGCAGCACAACCTGAGAG  
CAAACCTGTGTTTGGAGGCACCGCCACCCCACTTTGGTCAGAACACCCCTGCGCCTGGAGTGGGCACATCGGG  
CAGCAGCCTCTCCTTTGGGGCATCTTACGACCCGCCCAAGGCTTTGTTGGTGTGGACCGTTTCGGCAACACTTT

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**FIGURE 2299B**

TGCTCACCAGCAAGAACACAGCCCGAGGAAGGGACCCAATAACCTTTCAAAATGCAAACCTGCTGCCTGCGGTGAG  
GGCCCAGGGTCCTCCACGGAGAGGACAGGCATCTTCCTTTCCACCAGGAAGGAGTCAGCCTGGAGCCTCTGCTA  
TGTGCAAGGCGGTGTGCAAGCACCGGCTGCGGCTCTTTGCTGTCTCTTCTTTCTCTTTGGGGCTGGGCTGGGTGT  
GCGTTCTGGTGCTGATGCTTTGGCCTGTGAGGCTGAGCTAGAGAAGTGTAGATGTTAGATGTGCCAGTACCATCC  
TGCGCCTCCCAAGCATGCCCCACTCACTCACGTCGGCATCTCGACCCGTTCAATTACAGCAACGAAGAAGCCAC  
CGCTAAGCGTGGTCTTGGGGGAAGCCCGGAGGCAGTGCTCGGCACCCGGAACGTGCTCAGGCCTCGGTGGGGCC  
GGGCAGGCAGGGCGGGAGCTAGCCTGCAAGAGAAACAGCCCCAATGCTGGGTAAGAGAGCAGTTCACCCCATCCC  
CCCCCTCCACGACCCTGGCGCCCCGCCCTGTACCTGAAGGCGCCCGGTTCTGCTGCAGCGCATCTGGTACCATGT  
CTTCATTCTCCTCCTGGCAGAGGGAGCACATGGAGTAGACGAGCCGCTGCAGGGAAGGGAAAGTGAGCGCGTGGC  
ACAGGGCTCGCTGCTGGAACCCCTGCCAGGGCATGCAGACGCACCGGGCTAGGTGTCCCTGCCCCGGGATCCTCCA  
GCTGTCTGCTCGGCATACCTAAGGAAAAGCGTGTCTCGGTTACACAGCTTCACAGGCTGCCTCAGTCTGAAATC  
CTCGCTCCTGAAATCCTTGCCCTCACAGAGGAGAAGCTTTTGCTCCAGGGTCCCAAGCCCATTAAAGTGTGAGAACT  
AAGACCAAAACAGATGACTCCAGGTCTAAGCTGCTGTGGACCTCCGAGTCCCTCAGCCACGCCTTCTCACCATCT  
CACCCGAGCCACTGCAGGAAGGATCCAGCAGGACATAGTGGACCTCACGATAGCGCGGATCTAAGGGGGAGACCG  
CCAGGAAGTCTCCTCAGCCAGCTCACAGCAGGAGACGCCAACCCAGGCCAGCAGCGTGGCCATGGATGCCAGCC  
GC'TGGCATCCAGGTCAAAGGCAAAGATCTTCTAGGGCAGAGGGCAGAGCAGGGGTGAGCTGAGCATGCACGGA  
GCAGCTAAGGGCTGTGACAGCTGACACAGACAACCAGAACATGCAGGT'TAAGC'AGGACACACAATATTGAAAC  
GGCCTATATTTAAAGGGCCAGGGTCAGAGGTAAGTGGCCTGGGGTCTCTGCCCCAAGGGCTAAGGGATCCACAT  
CICACACCTGCAGTGGGGAAAGCTTAGCTTGGGGCAAATACCGTGAAGTACTTTGGTACAGCAGGAAAGAGTTAA  
GCGAAAGTCATCCTTTACGCCCTTTATTACCCACTGAAAGGCACAAAATCAAACCCCATGTCTCCTCCTCCTCCT  
CCTGTGGCACTCACCTTTGGTTCTTCAGAAGAGCAGCCAAGTGACTGGTCTTATTGCCTGGGGCGGCACAGGCAT  
CGATGACATGGGAGCCTGGCGGGGTCCAGCAGCATGGCTGGGAGACAGCTGGCCTGGCAGGCAGAGCACAGGGG  
CCGGGTAAACAGAGACCCCAAGGCTAGGCCCTTCCCGTGCCTACACATTCTTCCCTTTTCTATTCTCTTGCTAC  
CCTGTCTGCAAGATGAGGTGTCCGGCCCCGTACAGTGGGTGTTTCATGCAGATCTGTCTGGGCGGGAAACACCAG  
CAGCTCCGGCATCAAGGAGTCCAGGAGAAAATGCTTCCCCTTGAGGGCTTGTAAGTCATCAAGGCTGCCAGGGAA  
GAACCATTCAATTCATTTCTGAATTTCTCCCTGCCAGGCCCTATTTCAACGGTCCATTTCATGCAACAAATGTTAC  
CACAGCTATGGAGAAATCAACAGGGTGATAAGGGAATCCGGGATCCGCAGTTGAGGGAATGGGTTGTCAAGCCAG  
ACTGATGGGTGAGGAGCCCCCTCTACTGTTTACCAGCAGTGGGAGCCTGGGCAAGTGATTCAATCTCAAGCCCCA  
CTGGCATCTCTGTAAATAGTAGGTGTGAGGATTCAATGAGCCAATATATCCAAGATACTTACGTGCCACAATTT  
AATAAATGTTAGCTATTCTGTTGAAGCATAACCTTGAGAGAAAGTTACTTTACAGGGGGTGAGGAGTGGGGAA  
GTGAGAGCTGAGCTCATTCTTGATGGATGAGGAGTTAGTCATGTGAGGCGCTTAGGTTAAACTACATTCACTAT  
AACTCAGTAAAGCAGTCCCGCCCACTCTCCGACCCATGCAGAAATAGGCCTAGAGAGTCACATGTCTCAGTTCAG  
AAATCTATCGAAGTGGCAGAGCTGGAATTCAAACACAAGCAGCCGTTCTCTGCTATTCCACCCTGGTGTCCAAGC  
AACATGGTAGGGCAGAAGGAAGAGGATCTTACAAAGAGTAAGGGAAAGGGAGAGGGGCAGAGGCTGCTTCTCAGA  
GCCACCAAGGACAAAATAAGACAGGTGTGAGCCCACTGGAGGAGGCACGGGGCAGAGACCAGCCACTGTTGCTG  
GCACGCTGGTGCACGTAGCACTGTGGCAGATGGACCTGGAGAGGAAGCAGGAGGGACAGCACAAATGGAGCCAAGA  
AAGGACTTAGCATGGCCGGGCGGGTGGTTTCATGCCTGTAATCCCAGCATTTTGGGAGGCCAAGGTGGGCAGATC  
ACCTGAGGTGAGGAGTTTGGAGACAGCCTGGCCAACATGGAGAAATCCCGTCTCTACTAAAAATACAAAATTAGC  
CAGGCATGGTGTGCTGCATGCCTGCAATCCTGTAGGGAAAAGAAAGAGAGATCAGACTGTTACTGTGTCTGTGTAGA  
AAGGGAAGACATAAGAAATTCCATTTTGACCTGTACCTTGAACAATTGGTTGGCTGAGATGCTGTTAATTTGTGA  
CTTTGCCCCAAATTTGAGCTCACAAAACATGTGTTGTATGGAATCAAGGTTTAAAGGATCTAGGGCTGTGCAGG  
ACATGCCTTGTTAATAAACGTTTACAAGC

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**FIGURE 2300A**

CAGCATCAATAAGGCCATTAATACGCAGGAAGTGGCTGTAAAGGAAAAACACGCCAGAACGTGCATACTGGGCAC  
CCACCATGAGAAAGGGGCACAGACCTTCTGGTCTGTTGTCAACCGCCTGCCTCTGTCTAGCAACGCAGTGCTCTG  
CTGGAAGTTCTGCCATGTGTTCCACAACTCCTCCGAGATGGACACCCGAACGTCTGAAGGACTCTCTGAGATA  
CAGAAATGAATTGAGTGACATGAGCAGGATGTGGGGCCACCTGAGCGAGGGGTATGGCCAGCTGTGCAGCATCTA  
CCTGAAACTGCTAAGAACCAAGATGGAGTACCACACCAAAAATCCCAGGTTCCCAGGCAACCTGCAGATGAGTGA  
CCGCCAGCTGGACGAGGCTGGAGAAAGTGACGTGAACAACTTTTTCCAGTTAACAGTGGAGATGTTTGACTACCT  
GGAGTGTGAACCTCAACCTCTTCCAAACAGTATTCAACTCCCTGGACATGTCCCGCTCTGTGTCCGTGACGGCAGC  
AGGGCAGTGCCGCCTCGCCCCGCTGATCCAGGTCACTTGGACTGCAGCCACCTTTATGACTACACTGTCAAGCT  
TCTCTTCAAACCTCCACTCCTGCCTCCCAGCTGACACCCTGCAAGGCCACCGGGACCGCTTCATGGAGCAGTTTAC  
AAAGTTGAAAGATCTGTTCTACCGCTCCAGCAACCTGCAGTACTTCAAGCGGCTCATTGAGATCCCCCAGCTGCC  
TGAGAACCCACCCAACCTTCCCTGCGAGCCTCAGCCCTGTCAGAACATATCAGCCCTGTGGTGGTGATCCCTGCAGA  
GGCCTCATCCCCGACAGCGAGCCAGTCTAGAGAAGGATGACCTCATGGACATGGATGCCTCTCAGCAGAAATTT  
ATTTGACAACAAGTTTGATGACATCTTTGGCAGTTCATTGAGCAGTGATCCCTTCAATTTCAACAGTCAAAAATGG  
TGTGAACAAGGATGAGAAGGACCACTTAATTGAGCGACTATACAGAGAGATCAGTGGATTGAAGGCACAGCTAGA  
AAACATGAAGACTGAGAGCCAGCGGGTTGTGCTGCAGCTGAAGGGCCACGTGAGCGAGCTGGAAGCAGATCTGGC  
CGAGCAGCAGCACCTGCGGCAGCAGGCGGCCGACGACTGTGAATTCCTGCGGGCAGAACTGGACGAGCTCAGGAG  
GCAGCGGGAGGACACCGAGAAGGCTCAGCGGAGCCTGTCTGAGATAGAAAGGAAAGCTCAAGCCAATGAACAGCG  
ATATAGCAAGCTAAAGGAGAAGTACAGCGAGCTGGTTGAGAACCACGCTGACCTGGTGCGGAAGAATGCAGAGGT  
GACCAACAGGTGTCCATGGCCAGACAAGCCAGGTAGATTGGAACGAGAGAAAAAGAGCTGGAGGATTTCGTT  
GGAGCGCATCAGTGACAGGGCCAGCGGAAGACTCAAGAACAGCTGGAAGTTCTAGAGAGCTTGAAGCAGGAAC  
TGCCACAAGCCAACGGGAGCTTCAGGTTCTGCAAGGCAGCCTGGAACCTTCTGCCAGTCAGAAGCAAACTGGGC  
AGCCGAGTTCGCCGAGCTAGAGAAGGAGCGGGACAGCCTGGTGAGTGGCGCAGCTCATAGGGAGGGAATTATC  
TGCTCTTCGGAAGAAGTGCAGGACACTCAGCTCAAACCTGGCCAGCACAGAGGAATCTATGTGCCAGCTTGCCAA  
AGACCAACGAAAAATGCTTCTGGTGGGGTCCAGGAAGGCTGCGGAGCAGGTGATACAAGACGCCCTGAACCAGCT  
TGAAGAACCTCCTCTCATCAGCTGCGCTGGGTCTGCAGATCACCTCCTCTCCACGGTCACATCCATTTCCAGCTG  
CATCGAGCAACTGGAGAAAAGCTGGAGCCAGTATCTGGCCTGCCCAGAAGACATCAGTGGACTTCTCCATTCCAT  
AACCCTGCTGGCCCACTTGACCAGCGACGCCATTGCTCATGGTGCCACCACCTGCCTCAGAGCCCCACCTGAGCC  
TGCCGACTCACTGACCGAGGCCTGTAAGCAGTATGGCAGGGAAACCTCGCCTACCTGGCCTCCCTGGAGGAAGA  
GGGAAGCCTTGAGAATGCCGACAGCACAGCCATGAGGAACCTGCCTGAGCAAGATCAAGGCCATCGGCGAGGAGCT  
CCTGCCCAGGGGACTGGACATCAAGCAGGAGGAGCTGGGGGACCTGGTGGACAAGGAGATGGCGGCCACTTCAGC  
TGCTATTGAAACTGCCACGGCCAGAATAGAGGAGATGCTCAGCAAATCCCAGCAGGAGACACAGGAGTCAAATT  
GGAGGTGAATGAAAGGATCCTTGGTTGCTGTACAGCCTCATGCAAGCTATTGAGGTGCTCATCGTGGCCTCTAA  
GGACCTCCAGAGAGAGATTGTGGAGAGCGGACAGGGGTACAGCATCCCCTAAAGAGTTTTATGCCAAGAAGTCTCG  
ATGGACAGAAGGACTTATCTCAGCCTCCAAGGCTGTGGGCTGGGGAGCCACTGTCATGGTGGATGCAGCTGATCT  
GGTGGTACAAGGCAGAGGGAAATTTGAGGAGCTAATGGTGTGTTCTCATGAAATTGCTGCTAGCACAGCCCAGCT  
TGTGGCTGCATCCAAGGTGAAAGCTGATAAGGACAGCCCCAACCTAGCCCAGCTGCAGCAGGCCTCTCGGGGAGT  
GAACCAGGCCACTGCCGGCGTTGTGGCCTCAACCATTTCCGGCAAATCACAGATCGAAGAGACAGACAACATGGA  
CTTCTCAAGCATGACGCTGACACAGATCAAACGCCAAGAGATGGATTCTCAGGTTAGGGTGCTAGAGCTAGAAAA  
TGAATTGCAGAAGGAGCGTCAAAAACCTGGGAGAGCTTCGGAAAAAGCACTACGAGCTTGCTGGTGTGCTGAGGG  
CTGGGAAGAAGGAACAGAGGCATCTCCACCTACACTGCAAGAAGTGGTAACCGAAAAAGAATAGAGCCAAACCAA  
CACCCCATATGTCAGTGTAATCCTTGTTACCTATCTCGTGTGTGTTATTTCCCCAGCCACAGGCCAAATCCTTG  
GAGTCCAGGGGCAGCCACACCACTGCCATTACCCAGTGCCGAGGACATGCATGACACTTCCAAAGACTCCCTCC  
ATAGCGACACCCTTTCTGTTTGGACCATGGTCATCTCTGTTCTTTTCCCGCCTCCCTAGTTAGCATCCAGGCTG  
GCCAGTGCTGCCCATGAGCAAGCCTAGGTACGAAGAGGGGTGGTGGGGGCGAGGGCCACTCAACAGAGAGGACCA  
ACATCCAGTCCCTGCTGACTATTTGACCCCCACAACAATGGGTATCCTTAATAGAGGAGCTGCTTGTGTTTGTG  
ACAGCTTGGAAGGGAAGATCTTATGCCTTTTCTTTTCTGTTTTCTTCTCAGTCTTTTCAGTTTTCATATTTGCA  
CAAACCTGTGAGCATCAGAGGGCTGATGGATTCCAAACCAGGACACTACCCTGAGATCTGCACAGTCAGAAGGAC  
GGCAGGAGTGTCTGGCTGTGAATGCCAAGCCATTCTCCCCCTCTTTGGGCAGTGCCATGGATTTCCACTGCTT



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**FIGURE 2300B**

CTTATGGTGGTTGGTTGGGTTTTTGGTTTTGTTTTTTTTTTAAGTTTCACTCACATAGCCAACTCTCCCAAAG  
GGCACACCCCTGGGGCTGAGTCTCCAGGGCCCCCAACTGTGGTAGCTCCAGCGATGGTGCTGCCCAGGCCTCTC  
GGTGCTCCATCTCCGCCTCCACACTGACCAAGTGCTGGCCCCACCCAGTCCATGCTCCAGGGTCAGGCGGAGCTGC  
TGAGTGACAGCTTTCTCATAAAGCAGAAGGAGAGTGAGTGCCTTTCCCTCCTAAAGCTGAATCCCGGCGGAAAG  
CCTCTGTCCGCCTTTACAAGGGAGAAGACAACAGAAAGAGGGACAAGAGGGTTCACACAGCCCAGTTCCCGTGAC  
GAGGCTCAAAAACCTTGATCACATGCTTGAATGGAGCTGGTGAGATCAACAACACTACTTCCCTGCCGAATGAAC  
TGTCGGTGAATGGTCTCTGTCAAGCGGGCCGTCTCCCTTGGCCCAGAGACGGAGTGTGGGAGTGATTCCCAACTC  
CTTTCTGCAGACGTCTGCCTTGGCATCCTCTTGAATAGGAAGATCGTTCACCTTCTACGCAATTGACAAACCCG  
GAAGATCAGATGCAATTGCTCCCATCAGGGAAGAACCCTATACTTGGTTTGCTACCCTTAGTATTTATTACTAAC  
CTCCCTTAAGCAGCAACAGCCTACAAAGAGATGCTTGGAGCAATCAGAACTTCAGGTGTGACTCTAGCAAGGCTC  
ATCTTTCTGCCCCGCTACATCAGCCTTCAAGAATCAGAAGAAAGGCCAAGGTGCTGGACTGTTACTGACTTGGAT  
CCCAAAGCAAGGAGATCATTGGAGCTCTTGGGTGAGAGAAATGAGAAAGGACAGAGCCAGCGGCTCCAACCTCC  
TTTCAGCCACATGCCCCAGGCTCTCGCTGCCCTGTGGACAGGATGAGGACAGAGGGCACATGAACAGCTTGCCAG  
GGATGGGCAGCCCAACAGCACTTTTCTCTCTAGATGGACCCAGCATTTAAGTGACCTTCTGATCTTGAAAA  
ACAGCGTCTTCTTCTTTATCTATAGCAACTCATTGGTGGTAGCCATCAAGCACTTCCCAGGATCTGCTCCAACA  
GAATATTGCTAGGTTTTGCTACATGACGGGTGTGAGACTTCTGTTTGATCACTGTGAACCAACCCCATCTCCC  
TAGCCACCCCCCTCCCAACTCCCTCTCTGTGCATTTTCTAAGTGGGACATTCAAAAACTCTCTCCAGGACC  
TCGGATGACCATACTCAGACGTGTGACCTCCATACTGGGCTAAGGAGTATCAGCACTAGAAATTGGGCAGTCTT  
AATGTTGAATGCTGCTTTCTGCTTAGTATTTTTTTGATTCAAGGCTCAGAAGGAATGGTGCGTGGCTTCCCTGTC  
CCAGTTGTGGCAACTAAACCAATCGGTGTGTTCTTGATGCGGGTCAACATTTCCAAAAGTGGCTAGTCCCTCACTT  
CTAGATCTCAGCCATTCTAACTCATATGTTCCCAATTACCAAGGGGTGGCCGGGCACAGTGGCTCACGCCTGTAA  
TCCCAGCACTTTGAGAGGCTGAGGTGGTAGGATCACCTGAGGTGAGGAGTTCAAGACCAGCCTGTCCAACATGGT  
GAAACCCCATCTCTACTAAAAATACCAAAAATTAGCCGAGCGTAGTGACGGGTGCCCGTAATCCCAGCTACTCA  
GGAGGCTGAGACAGGAGAATCACCTGAACCCAGAGGCAGAGGTTGCAGTGAGCTGAGATCACGCCATTGTACTC  
CAGCCTGGGCAACAAGAGCAAACTCCGTCTCAAAAAAAAAAAAAAAAAATTACAAATGGGGCAACAGTCTAGTGTA  
ATGGATCAAATTAAGATTCTCTGCCCAGCCGGGCACAGTGGCGCATGCCTGTAATCCCAGAACTTTGGGAGGCCA  
AGACGGGATGATTGCTTGAGCTCAGGAGTTTGAGACCAGGCTGGGCATCATAGCAAGACCTCATCTCTACTAAAA  
TTCAAAAACAAAATTAGCCGGGCATGATGGTGCATGCCTGTAGTCTCAGCTAGTTGGGGAGCTAAGGTGGGAGAA  
TTGCTTGAGCTTGGGAAGTCGAGGCTGCAGTCAGCCCTGATTGTGCCAGTGCCTCCGGCCTGGGTGACAGAGTG  
AGACCCCTGTCTCAAAAAAAAAAAGATTCTGTGTGACAGCCAGCCAGCCAGGAGTTTGAGGCTGCAATGAGCCATGAT  
TTCCCACTGCACTCCAGCCTGAGTGACAGAGCGAGACTCCATCTCTTTAAAAACAAACAAAAAATTATCTGAATG  
ATCCTGTCTCTAAAAAGAAGCCACAGAAATGTTTAAAAACTTCATCGACTTAGCCTGAGTCATAACGGTTAAGAA  
AGCACTTAAACAGAAGCAGAGGCTAATTCAGTGTCACATGAGGAAGTAGCTGTCAGATGTCACATAATTACTTTC  
GTAATAGCTCAGATTAGAATGGCTACCCCATCTCTAGACAAAATCAAATTGTCCTATTGTGACTCTTCTAAAAA  
TGAAGATGAAGAGCTATTTAATGACACACCTTGATTAAACGGGAATCACATCTTAAAGCTAAAAATGAACCTG  
CAAGCCTTCTAAATGAGTCACTGAGCATCACTAGTGACAAGTCTCGGGTGAGCGTAAATGGGTGATGACAAGATG  
GGACAGCAACAAAATCATGGCTTAGGATCGACAAGAAGTTAAAAAACAGCTGCATCTGTTACTTAAGTTTGTAAAG  
ACAGTGCCCTGAGACCTCTAGAGAAAAGATGTTTGTGTACATAAGAGAAAGAGGCCAGACATGGTGTCTCACAGG  
TTAATCCCAGCACTTTGGGAGGCAGGGGCGGGTGGATCACCTGAGGTGAGGAGTTCAAGACTAGCCTGGCCAAAC  
ATGGTGAAACCCCGTCTCTACTAAAAATACAAAAATTAGCCGGGCATGGTGGCAGGCGCTATAATCCCAGCTAC  
TGGGGAGGCTGAGGCAGGAGAATC

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**FIGURE 2301**

ATGGGGCGGGGCCTCTGGGAGGCGTGGCCTCCGGCCGGCTCCTCTGCTGTTGCCAAGGGAAACTGCCGCGAGGAG  
GCGGAAGGAGCAGAGGACCGGCAGCCGGCGTTCGAGGCGGGGCGCGGGAACGACGGCGGCCATGGCGGCCTCGGGG  
CCCGGGTGTCGCAGCTGGTGCTTGTGTCCCGAGGTGCCATCCGCCACCTTCTTCACTGCGCTGCTCTCGCTGCTG  
GTTTCCGGGCCTCGCCTGTTTCTGCTGCAGCAGCCCCCTGGCGCCCTCGGGCCTCACGCTGAAGTCCGAGGCCCTT  
CGCAACTGGCAAGTTTACAGGCTGGTAACCTACATCTTTGTCTACGAGAATCCCATCTCCCTGCTCTGCGGCGCT  
ATCATCATCTGGCGCTTTGCTGGCAATTCGAGAGAACCCTGGGCACCGTCCGCCACTGCTTCTTACCGTGATC  
TTCGCCATCTTCTCCGCTATCATCTTCTGTGTCATTGAGGCTGTGTCACTGTCAAAGCTGGGGGAAGTGGAG  
GATGCCAGAGGTTTACCCCAAGTGGCCTTTGCCATGCTGGGAGTCACCACCGTCCGTTCTCGGATGAGGCGGGCC  
CTGGTGTTTGGCATGGTTGTGCCCTCAGTCCTGGTTCCGTGGCTCCTGCTGGGTGCCTCGTGGCTCATTCCCCAG  
ACCTCTTTCCTCAGTAATGTCTGCGGGCTGTCCATCGGGCTGGCCTATGGCCTCACCTACTGCTATTCCATCGAC  
CTCTCAGAGCGAGTGGCACTGAAGCTCGATCAGACCTTCCCCTTCAGCCTGATGAGGAGGATATCCGTGTTCAAG  
TACGTCTCAGGGTCTTCAGCCGAGAGGAGGGCAGCCAGAGCCGGAACCTGAACCCGGTGCCTGGCTCCTACCCC  
ACACAGAGCTGCCACCCTCACCTGTCCCCAAGCCACCCTGTGTCCCAGACGCAGCACGCCAGTGGTCAGAAGCTG  
GCCTCCTGGCCCTCCTGCACCCCGGGCACATGCCACCTTGCCTCCGTACCAGCCTGCCTCCGGCCTGTGCTAT  
GTGCAGAACCACCTTTGGTCCAAACCCACCTCCTCCAGTGTCTACCCAGCTTCTGCGGGCACCTCCCTGGGCATC  
CAGCCCCCAGCCTGTGAACAGCCCTGGCACGGTGTATTCTGGGGCCTTGGGCACACCAGGGGCTGCAGGCTCC  
AAGGAGTCCTCCAGGGTCCCCATGCCCTGAGAGAATTTCTAGGGAAGTCATCTCACTTGGCCTTCTGAAGGTCCT  
CCCTAAGAGTCTCCTGACAAAAGTTACTTATTGA

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**FIGURE 2302**

GTTTCATGATCAACATGGGAGACTCCACGTTGGACACCAGCTCCACCGTGTCCGAGGCGGTGGCCGAAGAAGTAT  
CTCTTTTCAGCATGACGGACATGATTCTGTTTTCGCTCATCGTGGGTCTCCTAACCTACTGGTTCCCTCTCAGAA  
AGAAAAAAGAAGAAGTCCCCGAGTTCACCAAAATTCAGACATTGACCTCCTCTGTGAGAGAGAGCAGCTTTGTGG  
AAAAGATGAAGAAAACGGGGAGGAACATCATCGTGTTCTACGGCTCCCAGACGGGGACTGCAGAGGAGTTTGCCA  
ACCGCTGTCCAAGGACGCCCACCGCTACGGGATGCGAGGCATGTGACGCGACCCTGAGGAGTATGACCTGGCCG  
ACCTGAGCAGCCTGCCAGAGATCGACAACGCCCTGGTGGTTTTCTGCATGGCCACCTACGGTGAGGGAGACCCCA  
CCGACAATGCCCAGGACTTCTACGACTGGCTGCAGGAGACAGACGTGGATCTCTCTGGGGTCAAGTTGCGGGTGT  
TTGGTCTTGGAACAAGACCTACGAGCACTTCAATGCCATGGGCAAGTACGTGGACAAGCGGCTGGAGCAGCTCG  
GCGCCAGCGCATCTTTGAGCTGGGGTTGGGCGACGACGATGGGAAGTGGAGGAGGACTTCATCACCTGGCGAG  
AGCAGTTCTGGCCGGCCGTGTGTGAACACTTTGGGGTGGAAAGCCACTGGCGAGGAGTCCAGCATTGCGCAGTACG  
AGCTTGTGGTCCACACCGACATAGATGCGGCCAAGGTGTACATGGGGGAGATGGGCCGGCTGAAGAGCTACGAGA  
ACCAGAAGCCCCCTTTGATGCCAAGAATCCGTTCTGGCTGCAGTACCACCAACCGGAAGCTGAACCAGGGAA  
CCGAGCGCCACCTCATGCACCTGGAATTGGACATCTCGGACTCCAAATCAGGTATGAATCTGGGGACCACGTGG  
CTGTGTACCCAGCCAACGACTCTGCTCTCGTCAACCAGCTGGGCAAAATCCTGGGTGCCGACCTGGACGTCGTCA  
TGTCCTGAACAACCTGGATGAGGAGTCCAACAAGAAGCACCCATTCCCGTGCCCTACGTCTACCGCACGGCCC  
TCACCTACTACCTGGACATCACCAACCCGCGCGTACCAACGTGCTGTACGAGCTGGCGCAGTACGCTCGGAGC  
CCTCGGAGCAGGAGCTGCTGCGCAAGATGGCCTCCTCCTCCGGCGAGGGCAAGGAGCTGTACCTGAGCTGGGTGG  
TGGAGGCCCGGAGGCACATCCTGGCCATCCTGCAGGACTGCCCCGTCCCTGCGGCCCCCATCGACCACCTGTGTG  
AGCTGCTGCCGCGCTGCAGGCCCCGCTACTACTCCATCGCCTCATCCTCCAAGGTCCACCCCCAATCTGTGCACA  
TCTGTGCGGTGGTTGTGGAGTACGAGACCAAGGCTGGCCGCATCAACAAGGGCGTGGCCACCAACTGGCTGCGGG  
CCAAGGAGCCTGCCGGGGAGAACGGCGGCCGTGCGCTGGTGCCCATGTTTCGTGCGCAAGTCCCAGTTCCGCTGC  
CCTTCAAGGCCACCACGCCTGTATCATGGTGGGCCCCGGCACCGGGGTGGCACCCCTTCATAGGCTTCATCCAGG  
AGCGGGCCTGGCTGCGACAGCAGGGCAAGGAGGTGGGGGAGACGCTGCTGTACTACGGCTGCCGCGCTCGGATG  
AGGACTACCTGTACCGGGAGGAGCTGGCGCAGTTCCACAGGGACGGTGCCTCACCCAGCTCAACGTGGCCTTCT  
CCCGGGAGCAGTCCCACAAGGTCTACGTCCAGCACCTGCTAAAGCAAGACCGAGAGCACCTGTGGAAGTTGATCG  
AAGGCGGTGCCCACATCTACGTCTGTGGGGATGCACGGAACATGGCCAGGGATGTGCAGAACACCTTCTACGACA  
TCGTGGCTGAGCTCGGGGCCATGGAGCACGCGCAGGCGGTGGACTACATCAAGAACTGATGACCAAGGGCCGCT  
ACTCCCTGGACGTGTGGAGCTAGGGGCCTGCCTGCCCCACCCACCCACAGACTCCGGCCTGTAATCAGCTCTCC  
TGGCTCCCTCCCGTAGTCTCCTGGGTGTGTTTGGCTTGGCCTTGGCATGGGCGCAGGCCAGTGACAAAGACTCC  
TCTGGGCCCTGGGGTGCATCCTCCTCAGCCCCAGGCCAGGTGAGGTCCACCGGCCCTGGCAGCACAGCCCAGGG  
CCTGCATGGGGGCACCGGGCTCCATGCCTCTGGAGGCCTCTGGCCCTCGGTGGCTGCACAGAAGGGCTCTTTCTC  
TCTGCTGAGCTGGGCCAGCCCTCCACGTGATTTCCAGTGAGTGAAATAATTTAAATAACCTCTGGCCCTTG  
GAATAAAGTTCTGTTTTCTGT

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**FIGURE 2303**

MTDMILFSLIVGLLLTYWFLFRKKKEEVPEFTKIQTLTSSVRESSFVEKMKKTGRNIIVFYGSQTGTAEFANRLS  
KDAHRYGMRGMSADPEEYDLADLSSLPEIDNALVVFCMATYGEDPTDNAQDFYDWLQETDVLDSGVKFAVFGLG  
NKTYEHFNAMGKYVDKRLEQLGAQRIFELGLGDDDGNNLEEDFITWREQFWPAVCEHFGVEATGEESSIRQYELVV  
HTDIDAAKVYMGEMGRKLSYENQKPPFDAKNPFLAAVTTNRKLNQGTERHLMHLELDISDSKIRYESGDHVAVYP  
ANDSALVNQLGKILGADLDVMSLNNLDEESNKKHPFPCPTSYRTALTYLDITNPPRTNVLYELAQYASEPSEQ  
ELLRKMASSSGEGKELYLSWVVEARRHILAILQDCPSLRPPIDHLCCELLPRLQARYYSIASSSKVHPNSVHICAV  
VVEYETKAGRINKGVATNWLRAKEPAGENGGRALVPMFVRKSQFRLPFKATTPVIMVGPGTGVAPFIGFIQERAW  
LRQQGKEVGETLLYYGCRSDEDYLYREELAQFHRDGALTQLNVAFSREQSHKVYVQHLLKQDREHLWKLEGGGA  
HIYVCGDARNMARDVQNTFYDIVAELGAMEHAQAVDYIKKLMTKGRYSLDVWS

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**FIGURE 2304**

GAGGAGCCTCGGGTGGGCCGGGGTTGCTGCGCCGTCTCCACTACTGGCTACTGGCGCTGCAGCCATGCAGCCCC  
CGCCCCCGGGCCCGCTGGGCGACTGCCTGCGGGACTGGGAGGATCTACAGCAGGACTTCCAGAACATCCAGGAGA  
CCCATCGGCTCTACCGCCTGAAGCTGGAGGAGCTGACCAAACTTCAGAACAAATTGCACCAGCTCCATCACGCGGC  
AGAAGAAGCGGCTCCAGGAGCTGGCCCTCGCCCTGAAGAAATGCAAACCCTCCCTCCCAGCAGAGGCCGAGGGGG  
CCGCACAGGAGCTGGAGAACCAGATGAAAGAGCGCCAAGGCCTCTTCTTTGACATGGAGGCCTATTTGCCTAAGA  
AGAATGGATTGTACCTGAGCCTGGTTCTGGGGAACGTCAACGTCACGCTCCTGAGCAAGCAGGCTAAGTTTGCTT  
ACAAGGACGAGTATGAGAAGTTCAAGCTCTACCTCACCATCATCCTCATCCTCATCTCCTTCACTTGCCGCTTCC  
TGCTCAACTCCAGGGTGACAGATGCTGCCTTCAACTTCCTGCTGGTCTGGTACTACTGCACCCTGACCATCCGGG  
AGAGCATCCTCATCAACAACGGCTCCCGGATCAAAGGCTGGTGGGTGTTCCATCACTACGTGTCCACCTTCCTGT  
CGGGAGTCATGCTGACGTGGCCCCGACGGTCTCATGTACCAGAAATTCCGGAACCAATTCCTCTCCTTTTCCATGT  
ACCAGAGCTTCGTGCAGTTTCTCCAGTACTACTACCAGAGCGGCTGCCTCTACCGCCTGCGGGCGCTGGGCGAGC  
GGCACACCATGGACCTCACTGTGGAGGGCTTCCAGTCCTGGATGTGGCGGGGCCTCACCTTCCTGCTGCCTTTTC  
TTTTCTTTGGACACTTCTGGCAGCTTTTTTAACGCGCTGACGTTGTTCAACCTGGCCCAGGACCCTCAGTGCAAGG  
AGTGGCAGGTGCTTATGTGCGGCTTTCCCTTCCTCCTCCTTTTCTCGGCAATTTCTTCACCACCCTGAGGGTTG  
TGCACCACAAGTTTCACAGTCAGCGGCACGGGAGCAAGAAGGATTGAGGCTGGGCCTTCCCCTGCCGGCCAGAG  
GGGCTTCTGTCTGTGTGTGTGGGAGGGGATGGGAGGCGCCCTCGAGTGTGCGTGTATCAGGGGGTCTCTTCT  
ATTCTCCCTTGGGTTTTATGGGCGCTGTGGGCCCTGAAGGAAGACCTGGGCCCAGTGCCCTCAATAAAGAGAGGC  
CCAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2305**

MQPPPPGPLGDCLRDWEDLQQDFQNIQETHRLYRLKLEELTKLQNNCTSSITRQKKRLQELALALKKCKPSLP  
AEGAAQELNQMKERQGLFFDMEAYLPKKNGLYLSVLGNVNVTLSSKQAKFAYKDEYEKFKLYLTIILILISFT  
CRFLNLSRVTDAAFNLLVWYYCTLTIRE SILINNGSRIKGWWVFHHYVSTFLSGVMLTWPDGLMYQKFRNQFLS  
FSMYQSFVQFLQYYYQSGCLYRLRALGERHTMDLTVEGFQSWMWRLTFLLPFLFFGHFWQLFNALTFLNLAQDP  
QCKEWQVLMCGFPFLLLFLGNFFTTLRVVHHKFHSQRHGSKKD

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**FIGURE 2306**

GGCGCTGGGCAGTGTGGAGGTCGTTGGAGTCACTTCCGCGTCACCAGCTCCTGTGCCTGCCAGTCGGTGCCCCCTC  
CCGCTCCAGCCATGCTCTCCGCCCTCGCCCGGCTGCCAGCGCTGCTCTCCGCCGCAGCTTCAGCACCTCGGCCC  
AGAACAATGCTAAAGTAGCTGTGCTAGGGGCTCTGGAGGCATCGGGCAGCCACTTTCACTTCTCCTGAAGAACA  
GCCCCTTGGTGAGCCGCTGACCCTCTATGATATCGCGCACACACCCGGAGTGGCCGCAGATCTGAGCCACATCG  
AGACCAAAGCCGCTGTGAAAGGCTACCTCGGACCTGAACAGCTGCCTGACTGCCTGAAAGGTTGTGATGTGGTAG  
TTATTCCGGCTGGAGTCCCCAGAAAGCCAGGCATGACCCGGGACGACCTGTTCAACACCAATGCCACGATTGTGG  
CCACCCTGACCCTGCCTGTGCCCAGCACTGCCCGGAAGCCATGATCTGCGTCATTGCCAATCCGGTTAATTCCA  
CCATCCCCATCACAGCAGAAGTTTTCAAGAAGCATGGAGTGTACAACCCCAACAAAATCTTCGGCGTGACGACCC  
TGGACATCGTCAGAGCCAACACCTTTGTTGCAGAGCTGAAGGGTTTGGATCCAGCTCGAGTCAACGTCCCTGTCA  
TTGGTGGCCATGCTGGGAAGACCATCATCCCCCTGATCTCTCAGTGCACCCCAAGGTGGACTTTCCCCAGGACC  
AGCTGACAGCACTCACTGGGCGGATCCAGGAGGCCGGCACGGAGGTGGTCAAGGCTAAAGCCGGAGCAGGCTCTG  
CCACCCTCTCCATGGCGTATGCCGGCGCCCGCTTTGTCTTCTCCCTTGTGGATGCAATGAATGGAAAGGAAGGTG  
TTGTGGAATGTTTCCTTCGTTAAGTCACAGGAAACGGAATGTACCTACTTCTCCACACCGCTGCTGCTTGGGAAAA  
AGGGCATCGAGAAGAACCTGGGCATCGGCAAAGTCTCCTCTTTTGAGGAGAAGATGATCTCGGATGCCATCCCCG  
AGCTGAAGGCCTCCATCAAGAAGGGGGAAGATTTCTGTGAAGACCCTGAAGTGAGCCGCTGTGACGGGTGGCCAGT  
TTCCTTAATTTATGAAGGCATCATGTCAGTCAAAGCCGTTGCAGATAAACTTTGTATTTTAATTTGCTTTGGTG  
ATGATTACTGTATTGACATCATCATGCCTTCCAAATTGTGGGTGGCTCTGTGGGCGCATCAATAAAAGCCGTCCT  
TGATTTTATTTTCAAGGTCCTTCTGTAAAAA

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**FIGURE 2307**

MLSALARPASAAALRRSFSTSAQNNAKVAVLGASGGIGQPLSLLLKNSPLVSRLTLYDIAHTPGVAADLSHIETKA  
AVKGYLGPEQLPDCLKGCDVVVIPAGVPRKPGMTRDDLFTNATIVATLTAAQAHCPEAMICVIANPVNSTIPI  
TAEVFKKHGVNPNKIFGVTTLDIVRANTFVAELKGLDPARVNVPEVIGGHAGKTIIP LISQCTPKVDFFPQDQLTA  
LTGRIQEAGTEVVKAKAGAGSATLSMAYAGARFVFSLV DAMNGKEGVVECSFVKSQETECTYFSTPLLLGKKGIE  
KNLGIGKVSSFEK MISAIP ELKASIKKGEDFVKTLK



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**FIGURE 2308**

CTCAAACACCGCCTGCTAAAAATACCCGACTGGAGGAGCATAAAAGCGCAGCCGAGCCCAGCGCCCCGCACTTTT  
CTGAGCAGACGTCCAGAGCAGAGTCAGCCAGCATGACCGAGCGCCGCGTCCCCTTCTCGCTCCTGCGGGGCCCCA  
GCTGGGACCCCTTCCGCGACTGGTACCCGCATAGCCGCCTCTTCGACCAGGCCTTCGGGCTGCCCCGGCTGCCGG  
AGGAGTGGTCGCAGTGGTTAGGCGGCAGCAGCTGGCCAGGCTACGTGCGCCCCCTGCCCCCGCCGCCATCGAGA  
GCCCCGCAGTGGCCGCGCCCCGCTACAGCCGCGCGCTCAGCCGGCAACTCAGCAGCGGGGTCTCGGAGATCCGGC  
ACACTGCGGACCGCTGGCGCGTGTCCCTGGATGTCAACCACTTCGCCCCGGACGAGCTGACGGTCAAGACCAAGG  
ATGGCGTGGTGGAGATCACCGCAAGCACGAGGAGCGGCAGGACGAGCATGGCTACATCTCCCGGTGCTTCACGC  
GGAAATACACGCTGCCCCCGGTGTGGACCCCAACCAAGTTTCTCCTCCCTGTCCCCTGAGGGCACACTGACCG  
TGGAGGCCCCCATGCCCAAGCTAGCCACGCAGTCCAACGAGATCACCATCCCAGTCACCTTCGAGTCGCGGGCCC  
AGCTTGGGGGCCCAGAAGCTGCAAAATCCGATGAGACTGCCGCCAAGTAAAGCCTTAGCCTGGATGCCACCCCT  
GCTGCCGCCACTGGCTGTGCCTCCCCCGCCACCTGTGTGTTCTTTTGATACATTTATCTTCTGTTTTTCTCAAAT  
AAAGTTCAAAGCAACCACCTGTAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2309**

MTERRVPFSLLRGPSWDPFRDWYPHSRLFDQAFGLPRLPEEWSQWLGGSSWPGYVRPLPPAAIESPAVAAPAYSR  
ALSRQLSSGVSEIRHTADRWVRVSLDVNHFAPELTVKTKDGVVEITGKHEERQDEHGYSISRCFTRKYTLPPGVDP  
TQVSSSLSPGTLTVEAPMPKLATQSNEITIPVTFESRAQLGGPEAAKSDETAAK

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**FIGURE 2310**

ATAAAAGCGCAGCCGAGCCCAGCGCCCCGCACTTTTCTGAGCAGACGTCCAGAGCAGAGTCAGCCAGCATGACCG  
AGCGCCGCGTCCCCTTCTCGCTCCTGCGGGGGCCCCAGCTGGGACCCCTTCCGCGACTGGTACCCGCATAGCCGCC  
TCTTCGACCAGGCCTTCGGGCTGCCCCGGCTGCCGGAGGAGTGGTCGCAGTGGTTAGGCGGCAGCAGCTGGCCAG  
GCTACGTGCGCCCCCTGCCCCCGCCGCCATCGAGAGCCCCGAGTGGCCGCGCCCGCCTACAGCCGCGCGCTCA  
GCCGGCAACTCAGCAGCGGGGTCTCGGAGATCCGGCACACTGCGGACCGCTGGCGCGTGTCCCTGGATGTCAACC  
ACTTCGCCCCGGACGAGCTGACGGTCAAGACCAAGGATGGCGTGGTGGAGATCACCGGTGAGCCCCCTGCTCCT  
GCAGGGGAGAGGAGGAGGCTAGCAGGGCGGGCAGGGCCGGGGCGTGCGGTTGAAACGGGGGTCCCGGGGGCCTG  
GGGAGTTAAACGTTGGCCCAGCACCGGGAAAAACAGGACTCCTGATTCCCTTGCTCAGGAATTGGGAGTGCGGGT  
CGCTTCTAAGGGCGCTTTCTGCTCTGTAATCCCAGCGCTTTGGGAGGCCGAGACGGGAGGATCGCTTGAGGCCAG  
GAGTTCAAGACTAGCCTGGGCAACATAGCGAGACGCGCCCCCGCCCCGACCCGCGCCATTAC

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**FIGURE 2311**

CAGAGTCAGCCAGCATGACCGAGCGCCGCGTCCCCCTTCTCGCTCCTGCGGGGGCCCCAGCTGGGACCCCTTCCGCG  
ACTGGTACCCGCATAGCCGCCTCTTCGACCAGGCCTTCGGGCTGCCCCGGCTGCCGGAGGAGTGGTCGCAGTGGT  
TAGGCGGCAGCAGCTGGCCAGGCTACGTGCGCCCCCTGCCCCCGCCGCGCATCGAGAGCCCCGCAGTGGCCGCGC  
CCGCCTACAGCCGCGCGCTCAGCCGGCAACTCAGCAGCGGGGTCTCGGAGATCCGGCACACTGCGGACCGCTGGC  
GCGTGTCCCTGGATGTCAACCACTTCGCCCCGGACGAGCTGACGGTCAAGACCAAGCTAGCCACGCAGTCCAACG  
AGATCACCATCCCAGTCACCTTCGAGTCGCGGGCCCAGCTTGGGGGGCCAGAAGCTGCAAAATCCGATGAGACTG  
CCGCCAAGTAAAGCCTTAGCCCGGATGCCACCCCTGCTGCCGCCACTGGCTGTGCCTCCCCCGCCACCTGTGTG  
TTCTTTTGATACATTTATCTTCTGTTTTTCTCAAATAAAGTTCAAAGCAACC

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**FIGURE 2312A**

GGACTGCGAAAGGAGCAGGGTTGCGGAGCTAGGGCTCCAGCCTGCGGCCGCGCATTCTTGCGTCTGGCCAGCCGC  
GAGCTCTAAGGGTCGGCCCCGCCCCGGTCCGCCCCCGCGGCTCCCTGCCAGGCTCTCGCGGGCGCGCTCGGGGTGG  
GGCCTCGCGGCTGGCGGAGATGCGGCCGGGGCTGCGCGGTGGTGATGCGAGCCTGCAGGGCGGCGCGCCGGGGCA  
GCCGGAGCCGCGCGCCGCGGCGCTGTAATCGGACACCAAGAGCGCTCGCCCCCGGCTCCGGCCACTTTCCATTTC  
ACTCCGAGGTGCTTGATTGAGCGACGCGGAGAAGAGCTCCGGGTGCCGCGGCACTGCAGCGCTGAGATTCCTTTA  
CAAAGAAACTCAGAGGACCGGGAAGAAAGAATTTACCTTTGCGACGTGCTAGAAAATAAGGTGCTCTGGGAAAA  
GGACTGGAGACACAAGCGCATCCAACCCCGGTAGCAAACCTGATGACTTTTCCGTGCTGATTTCTTTCAACCTCGG  
TATTTTCCCTTGGAATTAACCTTGCATATCTGAAGAAATGGCATTCCGGACAATTTGCGTGTTGGTTGGAGTATT  
TATTTGTTCTATCTGTGTGAAAGGATCTTCCAGCCCCAAGCAAGAGTTTATTTAACATTTGATGAACCTTCGAGA  
AACCAAGACCTCTGAATACTTCAGCCTTTCCACCATCCTTTAGACTACAGGATTTTATTAATGGATGAAGATCA  
GGACCGGATATATGTGGGAAGCAAAGATCACATTCTTTCCCTGAATATTAACAATATAAGTCAAGAAGCTTTGAG  
TGTTTTCTGGCCAGCATCTACAATCAAAGTTGAAGAATGCAAAATGGCTGGCAAAGATCCACACACGGCTGTGG  
GAACCTTTGTCCGTGTAATTCAGACTTTCAATCGCACACATTTGTATGCTGTGGGAGTGGCGCTTTTCAGTCTGT  
CTGTACTTACTTGAACAGAGGGAGGAGATCAGAGGACCAAGTTTTCATGATTGACTCCAAGTGTGAATCTGGAAA  
AGGACGCTGCTCTTTCAACCCCAACGTGAACACGGTGTCTGTTATGATCAATGAGGAGCTTTTCTCTGGAATGTA  
TATAGATTTTCATGGGGACAGATGCTGCTATTTTTTCGAAGTTTAACCAAGAGGAATGCGGTGAGAACTGATCAACA  
TAATTCAAAATGGCTAAGTGAACCTATGTTTGTAGATGCACATGTCAATCCAGATGGTACTGATCCAAATGATGC  
TAAGGTGACTTCTTCTTCAAAGAAAACTGACTGACAATAACAGGAGCACGAAACAGATTTCATTCATGATTGC  
TCGAATATGCTCTAATGACACTGGTGGACTGCGTAGCCTTGTCACAAAGTGGACCCTTTCTTAAAGGCGAGGCT  
GGTGTGCTCGGTAACAGATGAAGACGGCCAGAAACACACTTTGATGAATTAGAGGATGTGTTTCTGCTGGAAAC  
TGATAACCCGAGGACAACACTAGTGTATGGCATTTTTTACAACATCAAGCTCAGTTTTCAAAGGATCAGCCGTGTG  
TGTGTATCATTTATCTGATATACAGACTGTGTTTAATGGGCCTTTTGCCACAAAGAAGGGCCCAATCATCAGCT  
GATTTCTATCAGGGCAGAATTCCATATCCTCGCCCTGGAACCTTGTCAGGAGGAGCATTTACACCCAATATGCG  
AACCACCAAGGAGTTCCAGATGATGTTGTCACTTTTTATTCGGAACCATCCTCTCATGTACAATTCCATCTACCC  
AATCCACAAAAGGCCTTTGATTGTTGCTATTGGCACTGACTACAAGTATACAAAGATAGCTGTGGATCGAGTGAA  
CGCTGCTGATGGGAGATACCATGTCCTGTTTCTCGGAACAGATCGGGGTACTGTGCAAAAAGTGTTGTTCTTCC  
TACTAACAACTCTGTCTAGTGGCGAGCTCATTTCTGGAGGAGCTGGAAGTCTTTAAGAATCATGCTCCTATAACAAC  
AATGAAAAATTCATCTAAAAAGCAACAGTTGTATGTGAGTTCCAATGAAGGGGTTTCCAGGTATCTCTGCACCG  
CTGCCACATCTATGGTACAGCCTGTGCTGACTGCTGCCTGGCGCGGACCCTTATTGCGCCTGGGATGGCCATTTC  
CTGTTCCAGATTCTACCCAACCTGGGAAACGGAGGAGCCGAAGACAAGATGTGAGACATGGAACCCACTGACTCA  
ATGCAGAGGATTTAATCTAAAAGCATAACAGAAATGCAGCTGAAATGTCCAGTATGGAGTAAAAATAACACCAC  
TTTTCTGGAGTGTGCCCCCAAGTCTCCGCAGGCATCTATCAAGTGGCTGTTACAGAAAGACAAAGACAGGAGGAA  
AGAGGTTAAGCTGAATGAACGAATAATAGCCACTTCACAGGGACTCCTGATCCGCTCTGTTTCAGGGTTCTGACCA  
AGGACTTTATCACTGCATTGCTACAGAAAATAGTTTCAAGCAGACCATAGCCAAGATCAACTTCAAAGTTTTAGA  
TTCAGAAATGGTGGCTGTTGTGACGGACAAATGGTCCCCATGGACCTGGGCCAGCTCTGTGAGGGCTTTACCCTT  
CCACCCGAAGGACATCATGGGGGCATTTCAGCCACTCAGAAATGCAGATGATTAACCAATATTGCAAAGACACTCG  
GCAGCAACATCAGCAGGGAGATGAATCACAGAAAATGAGAGGGGACTATGGCAAGTTAAAGGCCCTCATCAATAG  
TCGGAAAAGTAGAAACAGGAGGAATCAGTTGCCAGAGTCATAATATTTTCTTATGTGGGTCTTATGCTTCCATTA  
ACAAATGCTCTGTCTTCAATGATCAAATTTTGAGCAAAGAACTTGTGCTTTACCAAGGGGAATTACTGAAAAAG  
GTGATTACTCCTGAAGTGAGTTTTACACGAACTGAAATGAGCATGCATTTTCTTGATGATAGTGACTAGCACTA  
GACATGTCATGGTCTCATGGTGCATATAAATATATTTAACTTAACCCAGATTTTATTTATATCTTTATTACCTT  
TTTCTTCAAAATCGATATGGTGGCTGCAAACTAGAATTGTTGCATCCCTCAATTGAATGAGGGCCATATCCCTG  
TGGTATTCCTTTCTGCTTTGGGGCTTTAGAATTCTAATTGTCACTGATTTTGTATATGAAAACAAGTTCCAAAT  
CCACAGCTTTTACGTAGTAAAAGTCATAAATGCATATGACAGAATGGCTATCAAAGAAATAGAAAAGGAAGACA  
GCATTTAAAGTTGTATAAAAACATGAGTTATTCATAAAGAGAAAATGATGAGTTTTTATGGTTCCAATGAAATAT  
GTTGGGGTTTTTTTTAAGATTGTAAAAATAATCAGTTACTGGTATCTGTCACTGACCTTTGTTTCCTTATTCAGGA  
AGATAAAAATCAGTAACCTACCCCATGAAGATATTTGGTGGGAGTTATATCAGTGAAGCAGTTTGGTTTATATTC  
TTATGTTATCACCTTCCAAACAAAAGCACTTACTTTTTTTTGAAGTTATTTATTTTAGACTCAAAGAATATAATC

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**FIGURE 2312B**

TGGCACTACTCAGTTATTACTGTTTGTTCTCTTATTCCCTAGTCTGTGTGGCAAATTAAACAATATAAGAAGGAA  
AAATTTGAAGTATTAGACTTCTAAATAAGGTGTGAAATCATCAAAAAGAAAAATCAAAGTAGAACTACTAATTT  
TTAAGAGGAATTTATAACAAATATGGCTAGTTTTCAACTTCAGTACTCAAATTCAATGATTCTTCCTTTTATTA  
AAACCAGTCTCAGATATCATACTGATTTTTAAGTCAACACTATATATTTTATGATCTTTTCAGTGTGATGGCAAG  
GTGCTTGTTATGTCTAGAAAGTAAGAAAACAATATGAGGAGACATTCTGTCTTTCAAAGGTAATGGTACATACG  
TTCAGTGGTCTCTAAGTGTAAGTAGTAAATTTTTGTGATGAATAAAAATAATTATCTCCTAATTGTATGTTAGAA  
TAATTTTATTAGAATAATTTTCACTGAAATTATTTTCTCCAAATAAAAAATTAGATGGAAAAATGTGAAAAAAAT  
TATTCATGCTCTCATATATATTTTTAAAAACACTACTTTTTGCTTTTTTTATTTTACCTTTTAAGACATTTTCATGCTT  
CCAGGTAAAAACAGATATTGTACCATGTACCTAATCCAAATATCATATAAACATTTTATTTTATAGTTAATAATCT  
ATGATGAAGGTAATTTAAAGTAGATTATGGCCTTTTTAAGTATTGCAGTCTAAAACCTCAAAAACATAAATCATTG  
TCAAAATTAATATGATTATTAATCAGAATATCAGAATATGATTCACTATTTAAACTATGATAAATTATGATAATA  
TATGAGGAGGCCCTCGCTATAGCAAAAATAGTTAAAATGCTGACATAACACCAAACCTTCATTTTTTAAAAAATCTG  
TTGTTCCAAATGTGTATAATTTTAAAGTAATTTCTAAAGCAGTTTATTATAATGGTTTGCCTGCTTAAAGGTAT  
AATTAAACTTCTTTTCTCTTCTACATTGACACACAGAAATGTGTCAATGTAAAGCCAAAACCATCTTCTGTGTTT  
ATGGCCAATCTATTCTCAAAGTTAAAGTAAATTTGTTTCAGAGTCACAGTCCCTTTATTTTACATAAGCCCAA  
ACTGATAGACAGTAACGGTGTGTTAGTTTTATACTATATTTGTGCTATTTAATTCTTTCTATTTTACAATTATTA  
AATTGTGTACACTTTCATTACTTTTAAAAATGTAGAAATTTCTTCATGAACATAACTCTGCTGAATGTAAAAGAAA  
ATTTTTTTTCAAAAATGCTGTTAATGTATACTACTGGTGGTTGATTGGTTTTATTTTATGTAGCTTGACAATTCA  
GTGACTTAATATCTATTCCATTTGTATTGTACATAAAATTTTCTAGAAATACACTTTTTTCCAAAGTGTAAAGTTT  
GTGAATAGATTTTAGCATGATGAACTGTCATAATGGTGAATGTTCAATCTGTGTAAGAAAACAACTAAATGTA  
GTTGTCACACTAAAATTTAATTGGATATTGATGAAATCATTGGCCTGGCAAATAAAACATGTTGAATTCCCC

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**FIGURE 2313**

CTTTCTGTCTTGATGACCTGTCTAGTGCTATAAATGAACACCTTTCTGCCCCGTGGACGCCGCCGAAGAAGCATCG  
TTAAAGTCTCTCTTCTCCCTGCCGTCATGTCTAAGTCAGAGTCTCCTAAAGAGCCCCAACAGCTGAGGAAGCTCT  
TCATTGGAGGGTTGAGCTTTGAAACAACCAATGAGAGTCTGAGGAGCCATTTTGAGCAATGGGGAACGCTCATGG  
ACTGTGTGGTAATGAGAGATCCAAACACCAAGTGCTCCAGGGGCTTTGGGTTTGTACATATGCCACTGTGGAGG  
AGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAATCAAAGAGAGCTGTTTCAA  
GAGAAGATTCTCAAAGACCAGGTGCCCACTTAACTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACCA  
AAGAACATCACCTAAGAGATTATTTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACCGAGGCA  
GTGGCAAGAAAAGGGGCTTTGCCTTTGTAACCTTTGACGACCATGACTCTGTGGATAAGATTGTCATTTCAGAAAT  
ACCATACTGTGAATGGCCACATCTGTGAAGTTAGGAAAGCCCTGTCAAAGCAAGAGATGGCGAGTACTTCATCCA  
GCCAAAGAGGTCAAAGTGGTTCTGGAACTTTAGTGGTGGTTCGTGGAGGTGGTTTCAGTGGGAATGACAACCTTTG  
GTCATGGAGGAACTTCAGTGGTTCGTGGTGGCTTTGGTGGCAGCCGTGGTGGTGGTGGATATGGTGGCAGTGGGG  
ATGGCTATAATGGATTTGGTAATGATGGAAGCAATTTTGGAGGTGGTGGAGCTACAATGATTTTGGCAATTACA  
ACAATCAGTCTTCAAATTTTAGACCCATGAAGGGAGGAAATTTTGGAGGCAGAAGCTCTGGCCCCATGGCGGTG  
GAGGCAATACTTTGCAAAACCAAGGTGGCTATGGCAGTTCCAGCAGCAGCAGTAGCTATGGCAGTGGCAGAAGAT  
TTTAATTAGGAAACAAAGCTTAGCAGGAGAGGAGAGCCAGAGAAGTGACAGGGAAGCTACAGGTTACAAGAGATT  
TGTGAATCAGCCAAGCACAGTGGTGGCAGGGCCTAGCTGCTACAAAGAAGACGTGTTTTAGACACATACTCATG  
TGTATGGGCAAAAACTCGAGGACTGTATTTGTGACTAGCTGTATAACAGGTTATTTTAATTTCTATTCTGCGGA  
AAGTGTAAGCATTCCAACAAAGGGTTTTAATGTAGTTTTTTTTTGCACCCATGCTGTTGATTATTAAATGTAA  
TAGTCTGATTGTGACACTGAATAAATGTCTTTTTT

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**FIGURE 2314**

MSKSESPKEPKQLRKLFIGGLSFETTNESLRSHFEQWGTLMDCVVMRDPNTKCSRGFGFVITYATVEEVDAAMNAR  
PHKVDGRVVESKRAVSREDSQRPGAHLTVKKIFVGGIKEDTKEHHLRDYFEQYGKIEVIEIMTDRGSGKKRGFAF  
VTFDDHDSVDKIVIQKYHTVNGHICEVRKALSKQEMASTSSSQRGQSGSGNFVVEATMILAITTISLQILDP



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**FIGURE 2315**

CCTTTCTGCCCCGTGGACGCCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCTCCCTGCCGTCATGTCTAAGTCAGA  
GTCTCCTAAAGAGCCCCAAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACCAATGAGAGTCT  
GAGGAGCCATTTTGAGCAATGGGGAACGCTCATGGACTGTGTGGTAATGAGAGATCCAAACACCAAGTGCTCCAG  
GGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGA  
TGGAAGAGTTGTGGAATCAAAGAGAGCTGTTTCAAGAGAAGATTCTCAAAGACCAGGTGCCCACTTAACTGTGAA  
AAAGATATTTGTTGGTGGCATTAAAGAAGACACCAAAGAACATCACCTAAGAGATTATTTTGAACAGTATGTGGA  
AGCAATTTTGGAGGTGGTGGGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTAGACCCATG  
AAGGGAGGAAATTTTGGAGGCAGAAGCTCTGGCCCCCTATGGCGGTGGAGGCAATACTTTGCAAACCAAGGTGGC  
TATGGCAGTTCCAGCAGCAGCAGTAGCTATGGCAGTGGCAGAAGATTTTAATTAGGAAACAAAGCTTAGCAGGAG  
AGGAGAGCCAGAGAAGTGACAGGGAAGCTACAGGTTACAAGAGATTTGTGAACTCAGCCAAGCACAGTGGTGGCA  
GGGCCTAGCTG

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**FIGURE 2316**

AAGTCTCTCTTCTCCCTGCCGTCATGTCTAAGTCAGAGTCTCCTAAAGAGCCCAAACAGCTGAGGAAGCTCTTCA  
TTGGAGGGTTGAGCTTTGAAACAACCAATGAGAGTCTGAGGAGCCATTTTGAGCAATGGGGAACGCTCATGGACT  
GTGTGGTAATGAGAGATCCAAACACCAAGTGCTCCAGGGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGG  
TGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAATCAAAGAGAGCTGTTTCAAGAG  
AAGATTCTCAAAGACCAGGTGCCCCACTTAACTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACCAAAG  
AACATCACCTAAGAGATTATTTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACCGAGGCAGTG  
GCAAGAAAAGGGGCTTTGCCTTTGTAACTTTGACGACCATGACTCTGTGGATAAGATTGTCATTGAGAAATACC  
ATACTGTGAATGGCCACATCTGTGAAGTTAGGAAAGCCCTGTCAAAGCAAGAGATGGCGAGTACTTCATCCAGCC  
AAAGAGGTCAAAGTGTTCTGGAACTTTAGTGGTGGTTCGTGGAGGTGGTTTCAGTGGGAATGACAACTTTGGTC  
ATGGAGGAACTTCAGTGGTCGTGGTGGCTTTGGATGGCTATAATGGATTTGGTAATGATGGAAGCAATTTTGA  
GGTGGTGGGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTAGACCCATGAAGGGAGGAAAT  
TTTGGAGGCAGAAGCTCTGGCCCCTATGGCGGTGGAGGCAATACTTTGCAA

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**FIGURE 2317**

CCCTGCCGTCATGTCTAAGTCAGAGTCTCCTAAAGAGCCCAAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAG  
CTTTGAAACAACCAATGAGAGTCTGAGGAGCCATTTTGAGCAATGGGGAACGCTCATGGACTGTGTGGTAATGAG  
AGATCCAAACACCAAGTGCTCCAGGGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGGTGGATGCAGCTAT  
GAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAATCAAAGAGAGCTGTTTCAAGAGAAGATTCTCAAAG  
ACCAGGTGCCCACTTAAC TGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACCAAAGAACATCACCTAAG  
AGATTATTTTGAACAGTATGGAAAATTGAAGTGATTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGGG  
CTTTGCCTTTGTAACCTTTGACGACCATGACTCGGTGGCTTTGGTGGCAGCCGTGGTGCTGGTGGATATGGTGGC  
AGTGGGGATGGCTATAATGGATTTGGTAATGATGGAAGCAATTTTGGAGGTGGTGGGAAGCTACAATGATTTTGGC  
AATTACAACAATCAGTCTTCAAATTTTAGACCCATGAAGG

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**FIGURE 2318**

ATGCCAAACTATGTCACCTTTACGGATACCAAACAATTGATTAGTGATACTCCAAATAATCAAGTTCCAATGAAC  
CGTGCCAGCATGGCTTTTGATGCCAAATGTCTGACTGGATGCAGATTTGATGATGCCATTGTCCAGTTTGATATG  
ACATATTGGCCTTTCACGGTGGTAAATGATGCTGGCAGGCCCAAGGTCCAAGTAGAGTATGAGAGAGACAAAAAG  
CTGCTACCCATAGGAGGTGTCTTCTATGGTTCTGACAAAGATGAAGGAAATTGCAAAGTCTACCTTGGGAAGAC  
TGTTACCAATGCTGTGGTCACAGTGCCAGCTTACTTGAATGA

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**FIGURE 2319A**

GTAACAACCGTCACCCCTGGGTCCCGACTGCCACCTCCTCCTCCTCCCCCTCCCCCAACAACAACAACAAC  
AACTCCAAGCACACCGGCCATAAGAGTGCGTGTGTCCCAACATGACCGAACGAAGAAGGGACGAGCTCTCTGAA  
GAGATCAACAACCTTAAGAGAGAAGGTCATGAAGCAGTCGGAGGAGAACAACAACCTGCAGAGCCAGGTGCAGAAG  
CTCACAGAGGAGAAACACCACCTTCGAGAGCAAGTGGAACCCACCCCTGAGGATGAGGATGATGACATCGAGCTC  
CGCGGTGCTGCAGCAGCTGCTGCCCCACCCCTCCAATAGAGGAAGAGTGCCCAGAAGACCTCCAGAGAAGTTC  
GATGGCAACCCAGACATGCTGGCTCCTTTTCATGGCCAGTGCCAGATCTTCATGGAAAAGAGCACCAGGGATTTC  
TCAGTTGATCGTGTCCGTGTCTGCTTCGTGACAAGCATGATGACCGGCCGTGCTGCCCGTTGGGCCTCAGCAAAG  
CTGGAGCGCTCCCACTACCTGATGCACAACCTACCCAGCTTTTCATGATGGAAATGAAGCATGTCTTTGAAGACCTT  
CAGAGGCGAGAGGTTGCCAAACGCAAGATCAGACGCCTGCGCCAAGGCATGGGGTCTGTTCATCGACTACTCCAAT  
GCTTTCCAGATGATTGCCCAGGACCTGGATTGGAACGAGCCTGCGCTGATTGACCAGTACCACGAGGGCCTCAGC  
GACCACATTCAGGAGGAGCTCTCCACCTCGAGGTGCGCAAGTCGCTGTCTGCTCTGATTGGGCAGTGCAATTCAC  
ATTGAGAGAAGGCTGGCCAGGGCTGCTGCAGCTCGCAAGCCACGCTCGCCACCCCGGGCGCTGGTGTTCCTCAC  
ATTGCAAGCCACCACCAGGTAGATCCAACGAGCCGGTGGGAGGTGCCCGCATGCGCCTGACGCAGGAAGAAAAA  
GAAAGACGCAGAAAGCTGAACCTGTGCCTCTACTGTGGAACAGGAGGTCACTACGCTGACAATTGTCTTGCCAAG  
GCCTCAAAGTCTTCGCCGGCGGGAAACTCCCCGGCCCCGCTGTAGAGGGACCTTCAGCGACCGGGCCAGAAATAA  
TAAGGTCCCCACAAGATGATGCCTCATCTCCACACTTGCAAGTGATGCTCCAGATTCATCTTCGGGCAGACACA  
CCCTGTTGCTCCGAGCCATGATCGATTCTGGTGCTTCTGGCAACTTCATTGATCACGAATATGTTGCTCAAAATG  
GAATTCCTCTAAGAATCAAGGACTGGCCAATACTTGTGGAAGCAATTGATGGGCGCCCCATAGCATCGGGCCAG  
TTGTCCACGAAACTCAGGACCTGATAGTTGACCTGGGAGATCACCGAGAGGTGCTGTCAATTTGATGTGACTCAGT  
CTCCATTCTTCCCTGTCGCTCTAGGGGTTGCTGGCTGAGCACACATGATCCCAATATCACATGGAGCACTCGAT  
CTATCGTCTTTGATTCTGAATACTGCCGCTACCACTGCCGGATGTATTCTCCAATACCACCATCGCTCCCACCAC  
CAGCACCACAACCGCCACTCTATTATCCAGTAGATGGATACAGAGTTTACCAACCAGTGAGGTATTACTATGTCC  
AGAATGTGTACTCTCCAGTAGATGAGCAGCTCTACCCAGATCACCGCCTGGTTGACCCTCACATAGAAATGATAC  
CTGGAGCACACAGTATTTCCAGTGGACATGTGTATTCACTGTCCGAACCTGAAATGGCAGCTCTTCGAGATTTTG  
TGGCAAGAAATGTAAAAGATGGGCTAATTACTCCAACGATTGCACCTAATGGAGCCCAAGTTCTCCAGGTGAAGA  
GGGGGTGGAAGTCAAGTTTCTTATGATTGCCGAGCTCCAAACAATTTTACTATCCAGAATCAGTATCCTCGCC  
TATCTATTCCAAATTTAGAAGACCAAGCACACCTGGCAACGTACACTGAATTCGTACCTCAAATACCTGGATACC  
AAACATACCCACATATGCCGCGTACCCGACCTACCCAGTAGGATTCGCTGGTACCCAGTGGGACGAGACGGAC  
AAGGAAGATCACTATATGTACCTGTGATGATCACTTGAATCCACACTGGTACCGCCAGCCTCCGGTACCACAGT  
ACCCGCCGCCACAGCCGCCGCTCCACCACCACCACCGCCGCCGCTCCATCTTACAGTACCCTGTAAATACCTG  
TCATGTCTTTCAGGATCTCTGCCCTCAAATTTTATTCTGTTTCAGCTTCTCAATCAGTGACTGTGTGCTAAATTT  
TAGGCTACTGTATCTTCAGGCCACCTGAGGCACATCCTCTCTGAAACGGCTATGGAAGGTTAGGGCCACTCTGGA  
CTGGCACACATCCTAAAGCACCAAAAGACCTTCAACATTTTCTGAGAGCAACAGAGTATTTGCCAATAAATGATC  
TCTCATTTTTCCACCTTGACTGCCAATCTAACTAAAATAATTAATAAGTTTACTTTCCAGCCAGTCTTGGAAGTC  
TGGGTTTTACCTGCCAAAACCTCCATCACCATCTAAATTATAGGCTGCCAAATTTGCTGTTTAAACATTTACAGAG  
AAGCTGATACAAACGCAGGAAATGCTGATTTCTTTATGGAGGGGAGACGAGGAGGAGGAGGACATGACTTTTCT  
TGCGGTTTCGGTACCCTCTTTTTAAATCACTGGAGGACTGAGGCCTTATTAAGGAAGCCAAAATTATCGGTGCAG  
TGTGAAAGGCTTCGTGATCCTCTCGCTGCACCCTTAGAACTTCACCGTCTTCAAATCCATTTCCATGGTTC  
TGTTAATTCTCAAGGAGCAGCAACTCGACTGGTTCTCCCAGGAGCAGGAAAAACCTTGTGACATGAAACATCTC  
AGGCCTGAAAAGAAAGTGCTCTCTCAGATGGACTCTTGATGTTAAGACTATGTCTTACATCATGGTGCAAATC  
ACATGTACCCAATGACTCCGGCTTTGACACAACACCTTACCATCATCATGCCATGATGGCTTCCACAAAGCATT  
AACCTGGTAACCAGAGATTACTGGTGGCTCCAGCGTTGTTAGATGTTTCATGAAATGTGACCACCTCTCAATCACC  
TTTGAGGGCTAAAGAGTAGCACATCAAAGGACTCCAAAATCCCATACCCAACCTCTTAAGAGATTTGTCTGGTA  
CTTCAGAAAGAAATTTTCATGAGTGTTCTTAATTGGCTGGAAAAGCACCAGCTGACGTTTTGGAAGAATCTATCCA  
TGTGTCTGCTCCATATGCATCTGGGCATTTTCATCTTCAGTCCCCCTCATTAGACTGTAGCATTAGGATGTGTGGA  
GAGAGGAGAAATGATTTAGCACCCAGATTCACACTCCTATGCCCTGGAAGGGGGACATCTTTGAAGAAGAGGAATT  
AGGGCTGTGGACACTGTCTTGAGGATGTGGACTTCCTTAGTGAGCTCCACATTACTTGATGGTAACCACTTCAA  
AGGATCAGAATCCACGTAATGAAAAGGTCCCTCTAGAGGATGGAGCTGATGTGAAGCTGCCAATGGATGAAAAG

CCTCAGAAAGCAACTCAAAGGACTCAAAGCAACGGACAACACAAGAGTTGCTTTCAGCCCAAGTGACACCTCTGAT  
 GTCCCCTGGAAGCTTTGTGCTAACCTGGGACTGCCTGACCTCCTTTAGCCCTGGTCCCTTGCTACTACCTTGAACCT  
 GTTTTATCTAACCTCTCTTTTTCTGTTTAATTCTTTGCTACTGCCATTGACCCTGCTGCAGGATTTGTGTCATTT  
 TCCTGCCTGGTTGCTGAGACTCCATTTTGTGTCACACACAGAGATGTAAGAGGCAGGCTTTAATTGCCAAAGCA  
 CAGTTTGAGCAGTAGAAAAACAACATGGTGTATATCTCAAATTGCCTGACATGAAGAGGAGTCTAACGGTGAAGTT  
 TCACTTTTTCATCAGCATCATCTTTCACATGTTTCATTATCATCCGCTCTTATTCTTGCATGTTTAAACACTTAAAA  
 TTTTATAGTATAATTTTTAGTGTGTTTGAAGTGGTGACTAGGCTTTCAAAAACCTTCATTGAATTACAAAGCACT  
 ATCCAGTTCCTTATTGTTAAACTAAGTAAAAATGATAAGTAACATAGTGTAAATATTTCCTTTACTGTGAACCTTCT  
 TACAATGCTGTGAATGAGAGGCTCCTCAGAACTGGAGCATTGTGATAATAATTTCATCCTGTTTCATCTTCAATTTT  
 AACATCATATATAATTTCAATTCTATCAATTGGGCCCTTTAAAAATCATATAAAAGGATATAAAATTTGAAAAGAG  
 AAACCTAATTGGCTATTTAATCCAAAACAACCTTTTTTTTTTTCCTTCAATGGAATCAGAAAGCTTGTCAATCACTC  
 ATGTGTTTTAGAGTAATTACTTTTAAAAATGGTGCATTGTGCTTCTGAACATTTTTGAAGAGTCACTTCTGTTTTA  
 CCTCAAGTATCAATTCATCCTCCATACATTTGAATTCAAGTTGTTTTTGTCAAATTTACAGTTGTCAATTGATC  
 TTCAAGCTGCAGGGTGCCTAGAAATGGGCCGTGTGCTGTAGCCCTGGCATGTGCACACGGACATTTGCCACCCT  
 GCAAGCAAAAGTCTGGAGAAGTTCACCAACGACAAGAACGATTAGGGAAAATATGCTGCTGTGGGTTAACAACCTC  
 AGAAAGTCCCTGATCCACATTTGGCTGTTTACTAAAGCTTGTGATTAACTTTTTTGGCAGTGTGTACTATGCTCTA  
 TTGCTATATATGCTATCTATAAATGTAGATGTTAAGGATAAGTAATTCTAAATTTATTATTCTATAGTTTTGAAG  
 TTTGGTTAAGTTTCCTTTCACTCAATTGATTTATTTGTTGTTAATCAAATTTATGTTAATTGGATCCTTTAAAT  
 TTTTTTGGCATTTTCCAACAAAAATGGCTTTATTCATAAGAAAGGAAAAAATCAATGGAATTTGATATCTAAA  
 GAAGTTAGAAAGGGAGCAAAATAAAAAACATAAAGGAGATAGATGAATTAGTAAGCAAATCAGTAGTCGAGTTTT  
 TCAAAC TGGCAAATTAATTAATTGACTTTTAGCCCAAATTTACATTGTTAATTAATCAAGAAGGAAGAAGATC  
 TAAGAGCTCCCATTGATAGGCAAGCCTAGAGAGAACTAGCTAAATTTATCATGCTAGGATATTGAAACACAGAAA  
 GTTTACATACATTTATGAAGGGTCAATTTAGTTTGGACAGTGAGGTATTTGTCTTAGTGGAaaaaaggagaatta  
 GTCTGATCAAATCGTGAAGTAATACAGTGAACCTGCAGGTGCACAAATAAGAGGGCCACATCTATATGGTGCAG  
 TCTGGAATTCGTGTTTAAGTTTGTAGGTACCTCTTGGACTTCTGAATTGATCCAGTTGTCTATCCACCACAGACATC  
 TCACATCAGATACAGACAGTTCCAAGATTGACAACAGAGAACAACCTGCTGGAAAGACCTGGGCAGAAATGGAGA  
 GCCCTGCGGGAACCATGCTACATTTTCATCTAAAGAGAGAATGCACATCTGATGAGACTGAAAGTTCTTTGTTGT  
 TTTAGATTGTAGAATGGTATTGAATTGGTCTGTGGAaaattgcattgctTTTTATTCTTTGTGTAATCAAGTTTA  
 AGTAATAGGGGATATATAATCATAAGCATTTTAGGGTGGGAGGGACTATTAAGTAATTTTAAAGTGGGTGGGGTTA  
 TTTAGAATGTTAGAATAATATTATGTATTAGATATCGCTATAAGTGGACATGCGTACTTACTTGTAACCCTTTAC  
 CCTATAATTGCTATCCTTAAAGATTTCAAATAAACTCGGAGGGAACTGCAGGGAGACCAACTTATTTAGAGCGAA  
 TTGGACATGGATAAAAAACCCAGTGGGAGAAAAGTTCAAAGGTGATTAGATTAATAATTTAATAGAGGATGAGTGA  
 CCTCTGATAAATTACTGCTAGAATGAACTTGTCAATGATGGATGGTAAATTTTCATGGAAGTTATAAAAGTGATA  
 AATAAAAAACCCTTGCTTTTACCCCTGTCTAGTCCCTCCTCCTACCACTGAACCCCATGCCCCTACCCCTCCTT  
 CTAACCTTTATTGCTGTATTCTCTTCACTCTATATTTCTCTCTATTGCTAATATTGCATTGCTGTTACAATAAAA  
 ATTCATAAAAGATTTAGTGGTTAAGTGC

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**FIGURE 2320**

MTERRRDELSEEINNLREKVMKQSEENNNLQSQVQKLTEENTTLREQVEPTPEDEDDDIELRGAAAAAAPPPIE  
EECPEDLPEKFDGNPDMLAPFMAQCQIFMEKSTRDFSVDVRVRCFVTSMMTGRAARWASAKLERSHYLMHNYPF  
MMEMKHVFEDPQRREVAKRKIRRLRQGMGSVIDYSNAFQMQDLQYHEGLSDHIQEELSHLEVAK  
SLSALIGQCIHIERRLARAAAARKPRSPPRALVLPFIASHHQVDPTPEVGGARMRLTQEEKERRRKLNLCLYCGT  
GGHYADNCPAKASKSSPAGNSPAPL

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**FIGURE 2321A**

AGCACCACGGCAGCAGGAGGTTTTCGGCTAAGTTGGAGGTACTGGCCACGACTGCATGCCCCGCGCCCGCCAGGTGA  
TACCTCCGCGGCTGACCCAGGGGCTCTGCGACACAAGGAGTCTGCATGTCTAAGTGCTAGACATGCTCAGCTTTG  
TGGATACGCGGACTTTGTTGCTGCTTGAGTAACCTTATGCCTAGCAACATGCCAATCTTTACAAGAGGAAACTG  
TAAGAAAGGGCCCAGCCGGAGATAGAGGACCACGTGGAGAAAGGGGTCCACCAGGCCCCCAGGCAGAGATGGTG  
AAGATGGTCCCACAGGCCCTCCTGGTCCACCTGGTCTCTGGCCCCCTGGTCTCGGTGGGAACCTTTGCTGCTC  
AGTATGATGGAAAAGGAGTTGGACTTGGCCCTGGACCAATGGGCTTAATGGGACCTAGAGGCCACCTGGTGCAG  
CTGGAGCCCCAGGCCCTCAAGGTTTTCAAGGACCTGCTGGTGAACCTGGTCAAACCTGGTCTCTGCAG  
GTGCTCGTGGTCCAGCTGGCCCTCCTGGCAAGGCTGGTGAAGATGGTCACCCTGGAAAACCCGGACGACCTGGTG  
AGAGAGGAGTTGTTGGACCACAGGGTGCTCGTGGTTTTCCCTGGAACTCCTGGACTTCTGGCTTCAAAGGCATTA  
GGGGACACAATGGTCTGGATGGATTGAAGGGACAGCCGGTGCTCCTGGTGTGAAGGGTGAACCTGGTGCCCTG  
GTGAAAATGGAACCTCAGGTCAAACAGGAGCCCGTGGGCTTCTGGTGAGAGAGGACGTGTTGGTGCCCTGGCC  
CAGCTGGTGCCCGTGGCAGTGATGGAAGTGTGGGTCCCGTGGGTCTGCTGGTCCCATTGGGTCTGCTGGCCCTC  
CAGGCTTCCCAGGTGCCCCTGGCCCCAAGGGTGAAATTGGAGCTATTGGTAACGCTGGTCTGCTGGTCCCGCCG  
GTCCCCGTGGTGAAGTGGGTCTTCCAGGCCTCTCCGGCCCCGTGGACCTCCTGGTAATCCTGGAGCAAACGGCC  
TTACTGGTGCCAAGGGTGCTGCTGGCCTTCCCGCGTGTGCTGGGGCTCCCGGCCTCCCTGGACCCCGCGGTATT  
CTGGCCCTGTTGGTGCTGCCGGTGCTACTGGTGCCAGAGGACTTGTGGTGAGCCTGGTCCAGCTGGCTCCAAAG  
GAGAGAGCGGTAACAAGGGTGAGCCCGCTCTGCTGGGCCCCAAGGTCTCCTGGTCCCAGTGGTGAAGAAGGAA  
AGAGAGGCCCTAATGGGGAAGCTGGATCTGCCGGCCCTCCAGGACCTCCTGGGCTGAGAGGTAGTCTGGTTCTC  
GTGGTCTTCTGGAGCTGATGGCAGAGCTGGCGTCATGGGCCCTCCTGGTAGTCGTGGTGCAAGTGGCCCTGCTG  
GAGTCCGAGGACCTAATGGAGATGCTGGTCCGCTGGGGAGCCTGGTCTCATGGGACCCAGAGGTCTTCTGGTT  
CCCCTGGAATATCGGCCCGCTGGAAAAGAAGGTCTGTGCGCCCTCCCTGGCATCGACGGCAGGCCTGGCCCAA  
TTGGCCCCGTGGAGCAAGAGGAGAGCCTGGCAACATTGGATTCCCTGGACCCAAAGGCCCCACTGGTGACCCTG  
GCAAAAACGGTGATAAAGGTGATGCTGGTCTTGGTGGTCTCGGGGTGCTCCAGGTCTGATGGAAACAATGGTG  
CTCAGGGACCTCCTGGACCACAGGGTGTTCAAGGTGGAAAAGGTGAACAGGGTCCCGCTGGTCTCCAGGCTTCC  
AGGGTCTGCCTGGCCCTCAGGTCCCGCTGGTGAAGTTGGCAAACCAGGAGAAAGGGGTCTCCATGGTGAGTTTG  
GTCTCCCTGGTCTGCTGGTCCAAGAGGGGAACCGGTCCCCCAGGTGAGAGTGGTGCTGCCGGTCTACTGGTG  
CTATTGGAAGCCGAGGTCTTCTGGACCCCCAGGGCTGATGGAAACAAGGGTGAACCTGGTGTGGTTGGTGCTG  
TGGGCACTGCTGGTCCATCTGGTCTAGTGGACTCCCAGGAGAGAGGGGTGCTGCTGGCATACTGGAGGCAAGG  
GAGAAAAGGGTGAACCTGGTCTCAGAGGTGAAATTGGTAACCTGGCAGAGATGGTGCTCGTGGTGCTCATGGTG  
CTGTAGGTGCCCCCTGGTCTGCTGGAGCCACAGGTGACCGGGGCGAAGCTGGGGCTGCTGGTCTGCTGGTCTG  
CTGGTCTCGGGGAAGCCCTGGTGAACGTGGCGAGGTCCGTCTGCTGGCCCCAACGGATTGCTGGTCCGGCTG  
GTGCTGCTGGTCAACCGGGTGCTAAAGGAGAAAGAGGAGGCAAAGGGCCTAAGGGTGAAAACGGTGTGTTGGTC  
CCACAGGCCCGCTGGAGCTGCTGGCCAGCTGGTCCAAATGGTCCCCCGGTCTGCTGGAAGTCGTGGTGATG  
GAGGCCCCCTGGTATGACTGGTTTTCCCTGGTGTGCTGCTGGACGGACTGGTCCCCCAGGACCCTCTGGTATTTCTG  
GCCCTCCTGGTCCCCCTGGTCTGCTGGGAAAGAAGGGCTTCGTGGTCTCTGTTGGTACCAAGGTCCAGTTGGCC  
GAACTGGAGAAGTAGGTGCAGTTGGTCCCCCTGGCTTCGCTGGTGAGAAGGGTCCCTCTGGAGAGGCTGGTACTG  
CTGGACCTCCTGGCACTCCAGGTCTCAGGGTCTTCTTGGTGCTCCTGGTATTCTGGGTCTCCCTGGCTCGAGAG  
GTGAACGTGGTCTACCTGGTGTGCTGGTGTGCTGGGTGAACCTGGTCTCTTGGCATTGCCGGCCCTCCTGGGG  
CCCGTGGTCTCCTGGTGTGCTGGGTAGTCTGGAGTCAACGGTGCTCCTGGTGAAGCTGGTCTGATGGCAACC  
CTGGGAACGATGGTCCCCCAGGTGCGGATGGTCAACCCGGACACAAGGGAGAGCGCGGTTACCCTGGCAATATTG  
GTCCCGTTGGTGCTGCAGGTGCACCTGGTCTCATGGCCCCGTGGGTCTGCTGGCAAACATGGAAACCGTGGTG  
AAACTGGTCTTCTGGTCTGTTGGTCTGCTGGTGTGTTGGCCCAAGAGGTCTAGTGGCCCAACAAGGCATT  
GTGGCGATAAGGGAGAGCCCGGTGAAAAGGGGCCAGAGGTCTTCTGGCTTCAAGGGACACAATGGATTGCAAG  
GTCTGCCTGGTATCGCTGGTCAACCATGGTGATCAAGGTGCTCCTGGCTCCGTGGGTCTGCTGGTCTAGGGGCC  
CTGCTGGTCTTCTGGCCCTGCTGGAAAAGATGGTTCGCACTGGACATCCTGGTACGGTTGGACCTGCTGGCATT  
GAGGCCCTCAGGGTACCAAGGCCCTGCTGGCCCCCTGGTCCCCCTGGCCCTCCTGGACCTCCAGGTGTAAGCG  
GTGGTGGTTATGACTTTGGTTACGATGGAGACTTCTACAGGGCTGACCAGCCTCGCTCAGCACCTTCTCTCAGAC  
CCAAGGACTATGAAGTTGATGCTACTCTGAAGTCTCTCAACAACCAGATTGAGACCCTTCTTACTCCTGAAGGCT



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**FIGURE 2321B**

CTAGAAAGAACCCAGCTCGCACATGCCGTGACTTGAGACTCAGCCACCCAGAGTGGAGCAGTGGTTACTACTGGA  
TTGACCCCAACCAAGGATGCACTATGGAAGCCATCAAAGTATACTGTGATTTCCCTACCGGCCGAAACCTGTATCC  
GGGCCCCAACCTGAAAAACATCCCAGCCAAGAAGCTGGTATAGGAGCTCCAAGGACAAGAAACACGTCTGGCTAGGAG  
AAACTATCAATGCTGGCAGCCAGTTTGAATATAATGTTGAAGGAGTGACTTCCAAGGAAATGGCTACCCAACTTG  
CCTTCATGCGCCTGCTGGCCAACTATGCCTCTCAGAACATCACCTACCACTGCAAGAACAGCATTGCATACATGG  
ATGAGGAGACTGGCAACCTGAAAAAGGCTGTCATTCTACAGGGCTCTAATGATGTTGAACTTGTTGCTGAGGGCA  
ACAGCAGGTTCACTTACACTGTTCTTGTAGATGGCTGCTCTAAAAAGACAAATGAATGGGGAAAGACAATCATTG  
AATACAAAACAAATAAGCCATCACGCCTGCCCTTCCTTGATATTGCACCTTTGGACATCGGTGGTGCTGACCATG  
AATTCTTTGTGGACATTGGCCCAGTCTGTTTCAAATAAATGAACTCAATCTAAATTAAAAAAGAAAGAAATTTGA  
AAAAACTTTTCTTTTGCCATTTCTTCTTCTTTTTTAACTGAAAGCTGAATCCTTCCATTTCTTCTGCACATC  
TACTTGCTTAAATTGTGGGCAAAAGAGAAAAAGAAGGATTGATCAGAGCATTGTGCAATACAGTTTCATTAACCTC  
CTTCCCCCGCTCCCCCAAAATTTGAATTTTTTTTTTCAACACTCTTACACCTGTTATGGAAAATGTCAACCTTTG  
TAAGAAAACCAAAATAAAAATTGAAAAATAAAAACCATAAACATTTGCACCACTTGTGGCTTTTGAATATCTTCC  
ACAGAGGGAAGTTTAAAACCCAAACTTCCAAAGGTTTAAACTACCTCAAAACACTTTCCCATGAGTGTGATCCAC  
ATTGTTAGGTGCTGACCTAGACAGAGATGAACTGAGGTCCTTGTTTTGTTTTGTTTCATAATACAAAGGTGCTAAT  
TAATAGTATTTTCAATACCTTGAAGAATGTTGATGGTGCTAGAAGAATTTGAGAAGAAATACTCCTGTATTGAGTT  
GTATCGTGTGGTGTATTTTTTAAAAAATTTGATTTAGCATTTCATATTTCCATCTTATTCCCAATTAAAGTATG  
CAGATTATTTGCCCAAAGTTGTCCTCTTCTTCAGATTTCAGCATTGTTCTTTGCCAGTCTCATTTTCATCTTCTT  
CCATGGTTCCACAGAAGCTTTGTTTCTTGGGCAAGCAGAAAAATTAAATTGTACCTATTTTGTATATGTGAGATG  
TTTAAATAAATTGTGAAAAAATGAAATAAAGCATGTTTGGTTTTCCAAAAGAACATAT

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**FIGURE 2322**

ATTTAAC TTTTAATGCTTTTCTACAATATGCTATAAATATAAGAAAAATTAAAATTCAC TAACAGCAAGACTAC  
ATACCCACCCAGGTCCCGCTCCCAAAGACACACATAGAGGGACATACACACAACAATCCTAAAAATGACTTTGTA  
GAGATAGGTCAC TTGGAATGTGTGTTGAAATGTTGTTGGTTTTTTTTGGTTGGTTTGT TTTGTTTGT TTTTGT TAG  
ACTGATAGGGAGCCCCTCCCACTAAAGACACCCTTGATACTGTTATTTCAAGGATGAACTTATTTATCTGGGACA  
GACATCTTCAGAATGACACATGCCAAACAGTGGTTCTTATTAAATCAAAGGTT CAGATATTATCAGATTCAGAAA  
TAGTGATGCTTTGTGTATCTATTTTCTTCTCTTTAAACAGAAAAAGACAAATGAATGGGGAAAGACAATCATTGA  
ATACAAAACAAATAAGCCATCACGCCTGCCCTTCCTTGATATTGCACCTTTGGACATCGGTGGTGCTGACCATGA  
ATTCTTTGTGGACATTGGCCCAGTCTGTTTCAAATAAATGAACTCAATCTAAATTAAAAAAGAAAGAAATTTGGA  
GAAAAAGAAGGATTGATCAGAGCATTGTGCAATACAGTTTCATTA ACTCCTTCCCCCGCTCCCCCAAAAATTTGA  
ATTTTTTTTTCAACACTCTTACACCTGTTATGGAAAATGTCAACCTTTGTAAGAAAACCAAAATAAAAAATTGAAA  
AATAAAAACCATAAACATTTGCACCACTTGTGGCTTTTGAATATCTTCCACAGAGGGAAGTTTAAAACCCAACT  
TCCAAAGGTTTAAACTACCTCAAACACTTTCCCATGAGTGTGATCCACATTGTTAGGTGCTGACCTAGACAGAG  
ATGAACTGAGGTCCTTGTTTTGTTTGTTCATAATACAAAGGTGCTAATTAATAGTATTT CAGATACTTGAAGAA  
TGTTGATGGTGCTAGAAGAATTTGAGAAGAAATACTCCTGTATTGAGTTGTATCGTGTGGTGATTTTTTAA

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**FIGURE 2323**

CATCCGTGGACTTGGAGGCTGGCTCGGGCCCCGCACCTCCCATCCCCAGCTGCCCCGCAACCCCCAGTGA CTGGGA  
TCCCCCGGAGAGCCCTCCCCTCTCGGCAGGAGGGGGCTGACTCAGGGAGAAATGGCAGTTTAGGGCCTAGGGGGC  
CACGTGACCCCTCCCCCAGGAATGTGGTGACGTATCGGAGGCGTGGTCGTCGCCAAAATTAGGGAGGAAGAGGAA  
AAAAAAAAAGCCAGAAAAAGTTTTCTTTCTGGAGTCCCAAACGAGGTGCGGGACGGAAGAGGGGGTGAAGGCCAG  
AGGCTCGGGGCTTCAAGACCGCTGTCTGGAGTCCCCCTTTCCAGGCCATGTGCGGGGCCACCTGGCTGCCCCGA  
AGCAGCCGGAGCCCCGCCAGAGCCCTCAGGGGAGGGCGATCCCCCGCGGCACCCCGGGGCCACCACCGGGCCACG  
GAGCAGCACTCCAGCCCCACCCAGGGTCAATTTTTGCCCCCTTCCATCTGAGCAGTGTTACCAGGCCCCAGGGG  
GACCGGAGGATCGGGGGCCGGCGTGGGTGGGGTCCCATGGAGTACTCCAGCACACGCAGGGGCTCCCTGCAGACA  
GGGGGGGCTTTCGCCCTGGAAGCCTGGACGCCGAGATAGACTTGCTGAGCAGCACGCTGGCCGAGCTGAATGGGG  
GTCGGGGTTCATGCGTCACGGCGACCAGACCGACAGGCATATGAGCCCCCGCCACCTCCTGCCTACCGCACGGGCT  
CCCTGAAGCCAAATCCAGCCTCGCCGCTCCCAGCGTCTCCCTATGGGGGCCCCACTCCAGCCTCTTACACTACCG  
CCAGCACCCCGGCTGGCCCAGCCTTCCCCGTGCAAGTGAAGGTGGCACAGCCAGTGAGGGGCTGCGGGCCACCCA  
GGCGGGGAGCCTCTCAGGCCTCTGGGCCCTCCCCGGGCCCCCACTTTCCTCTCCAGGCCGAGGTGAAGTCTGGG  
GGCCTGGCTATAGGAGCCAGAGAGAGCCAGGGCCAGGGGCCAAAGAGGAAGCTGCTGGGGTCTCTGGCCCTGCAG  
GAAGAGGAAGAGGAGGCGAGCACGGGCCCCAGGTGCCCCTGAGCCAGCCTCCAGAGGATGAGCTGGATAGGCTGA  
CGAAGAAGCTGGTTCACGACATGAACCACCCGCCAGCGGGGAGTACTTTGGCCAGTGTGGTGGCTGCGGAGAAG  
ATGTGGTTGGGGATGGGGCTGGGGTTGTGGCCCTTGATCGCGTCTTTCACGTGGGCTGCTTTGTATGTTCTACAT  
GCCGGGCCCCAGCTTCGCGGCCAGCATTTCTACGCCGTGGAGAGGAGGGCATATTGCGAGGGCTGCTACGTGGCCA  
CCCTGGAGAAATGTGCCACGTGCTCCCAGCCCATCCTGGACCGGATCCTGCGGGCTATGGGGAAGGCCTACCACC  
CTGGCTGCTTCACCTGCGTGGTGTGTACCGCGGCCTCGACGGCATCCCCCTTCACAGTGGATGCTACGAGCCAGA  
TCCACTGCATTGAGGACTTTCACAGGAAGTTTGCCCCAAGATGCTCAGTGTGCGGTGGGGCCATAATGCCTGAGC  
CAGGTCAGGAGGAGACTGTGAGAATTGTTGCTCTGGATCGAAGTTTTACATTGGCTGTTACAAGTGCGAGGAGT  
GTGGGCTGCTGCTCTCCTCTGAGGGCGAGTGTGAGGGCTGCTACCCGCTGGATGGGCACATCTTGTGCAAGGCCT  
GCAGCGCCTGGCGCATCCAGGAGCTCTCAGCCACCGTCACCACTGACTGCTGAGTCTTCTAGAAAGTACCTGCTG  
GGTTCTCAGTTCAGTTCCTATCCTTTGATTGATCACTCTCCCTGACATCCACCTGTATGACTTTGTACCAAAT  
GCTGTCTTCTCTTTCTCCAATCAAGAAATAATAATCCCTCGAGTTTACAAAACACTTCCAAGTCTGTTGTCTCAT  
CTGATTCTCCCAGTAGCCCATACAGGCCAGTCATTGTT

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**FIGURE 2324**

MSGPTWLPPKQPEPARAPQGRAIPRGTPGPPPAHGAALQPHPRVNFCLPSEQCYQAPGGPEDRGPAWVGSHGVL  
QHTQGLPADRGGLRPGSLDAEIDLLSSTLAELNGGRGHASRRPDRQAYEPPPPPAYRTGSLKPNPASPLPASPYG  
GPTPASYTTASTPAGPAFPVQVKVAQFVRGCGPPRRGASQASGPLPGPHFPLPGRGEVWGPgyrsQREPGPGAKE  
EAAGVSGPAGRGRGGEHGPQVPLSQPPEDELDRLTKKLVHDMNHPPSGEYFGQCGGCGEDVVG DGAGVVALDRVF  
HVGCFVCSTCRAQLRGQHFYAVERRAYCEGCVATLEKCATCSQPILDRILRAMGKAYHPGCFTCVVCHRGLDGI  
PFTVDATSQIHCIEDFHRKFAPRCSVCGGAIMPEPGQEETVRIVALDRSFHIGCYKCEECGLLLSSEGEQCQGCYP  
LDGHILCKACSAWRIQELSATVTTDC

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**FIGURE 2325**

GTCTTTTCCGGCCCCCGTGCACTCTCCGCCCCGAGCGGAGCCCCCGGGCTCGCGGGGATCGCCCCGAGCGCTGCG  
TCCTGCGGGTCACCTAACCATTGTGGCTTCTCTACCTGTGCTCAGCCATGGCCAGCGAGAGCTCACCTCTGC  
TGGCCTACCGGCTCCTGGGGGAGGAGGGGGTTGCCCTCCCTGCCAATGGGGCCGGGGGTCTGGAGGGGCGTCTG  
CCCGGAAGCTGTCCACCTTCTGGGTGTGGTGGTGCCCACTGTCTGTCCATGTTTACAGCATAGTTGTTTTTCTGA  
GGATTGGGTTCTGTGGTGGGTTCATGCTGGGCTACTGCAAGGCCCTGGCCATGCTGCTGGTTGCCTACTTCATCCTGG  
CACTCACCGTCTCTCTGTCTGTGCCATCGCCACCAATGGAGCCGTGCAGGGGGGCGGAGCCTACTTCATGATCA  
GCCGCACACTGGGGCCCCGAGGTGGGGGCGAGCATTTGGGCTCATGTTCTACCTGGCTAACGTCTGTGGCTGTGCCG  
TCTCCCTCCTGGGGCTGGTGGAGTCTGTGCTTGATGTCTTCGGGGCCGATGCCACAGGGCCCCAGTGGGCTCCGGG  
TCCTGCCCCAGGGCTACGGCTGGAACCTGCTGTATGGCTCCCTGCTGCTGGGCCTTGTGGGTGGGGTCTGCACCC  
TGGGAGCCGGCCTCTATGCCCGGGCCTCATTCCTCACATTCCTGCTGGTCTCTGGCTCCCTGGCCTCTGTGCTCA  
TCAGTTTTGTGGCTGTGGGGCCGAGGGACATCCGCTTGACTCCTAGGCCTGGCCCCAATGGCTCCTCCCTGCCGC  
CCCGGTTTGGCCACTTCACCGGCTTCAACAGCAGTACCTGAAGGACAACCTTGGGCGCTGGCTATGCTGAGGACT  
ACACCACGGGAGCCGTGATGAATTTTGCCAGCGTCTTTGCTGTCTCTTTAACGGCTGTACAGGCATCATGGCTG  
GGGCCAACATGTACAGGGGAGCTGAAGGACCCGAGCCGGGCGATCCCTCTGGGCACGATCGTCGCCGTGCCTACA  
CCTTCTTCGTCTATGTCTGCTTTTCTTTCTCTCCAGCTTCACCTGTGACAGGACCCTGCTGCAGGAAGACTATG  
GGTCTTCCGCGCCATCAGCCTGTGGCCCCCACTGGTGTGATCGGAATCTATGCCACAGCGCTCTCAGCGTCCA  
TGAGCTCGCTCATTGGTGCCTCCCGCATCCTCCATGCCCTGGCCCCGGGATGACCTCTTTGGCGTGATCTTGGCAC  
CGGCCAAGGTTGTGTCCCGAGGGGGAACCCCTGGGCAGCTGTACTTTATTCTTGGGGCCTGGTGCAGCTGGTGC  
TCCTGGCTGGGAAGCTGAACACACTGGCTGCTGTGGTCACTGTCTTCTACCTGGTGGCCTATGCTGCCGTGGACC  
TGTCTGCTGAGCCTGGAGTGGGCTCGGCCCCCACTTCGCCCCACCTTCAGCCTGTTCTCCTGGCACACCT  
GCCTGCTGGGGGTGGCCTCCTGCCTGCTCATGATGTTCTCATCAGTCTGGCGCGGCTGGTGGCTCCCTGCTCC  
TCATGGGTCTGCTGGCTGCCCTGCTCACCGCGCGAGGAGGCCCCAGTAGCTGGGGCTATGTACAGCCAGGCCTTGC  
TTTTCCACCAGGTGCGTAAGTATCTGCTTCGGCTGGACGTCCGGAAGGATCACGTGAAGTTCTGGCGGGCCCCAGC  
TGCTGCTCCTGGTGGGGAACCCCGGGGCGCCCTGCCTCTGCTGCGGTTGGCCAACCAGCTTAAGAAGGGGGGGC  
TGATGTGCTGGGCCACGTACCCCTGGGAGACCTCGACTCCCTGCCCTCGGACCCTGTACAGCCGAGTATGGGG  
CATGGCTCAGCCTGGTGGACCGTGCCAGGTGAAGGCTTTTGTGGATCTAACCTCTCACCTCCGTGCGCCAGG  
GGGCTCAGCATCTGCTGCGAATCTCCGGCCTCGGTGGCATGAAGCCCAACACGTTGGTCTAGGTTTCTACGATG  
ACGCTCCACCGCAGGACCATTTCTGACGGACCCGGCTTTCTCTGAGCCTGCAGACAGCACCAGGGAGGGCAGTT  
CCCCAGCTCTGAGCACCTGTTCCCTCCTCCCCGGGCTCCTGGGAGCCCCCGGGCCCTCAATCCCCAGGACTATG  
TGGCCACGGTGGCCGACGCCCTCAAGATGAACAAGAATGTGGTGTGGCCCGGGCCAGCGGGGCTTGCCCCCTG  
AGCGGCTGAGCCGGGGGTCTGGGGGCACCTCTCAGCTGCACCATGTGGACGTGTGGCCCTCAACCTGCTGCGGC  
CCCGGGGTGGGCCCCGGCTATGTGGATGTCTGCGGCCTCTTCCTGCTGCAGATGGCAACCATCTTGGGCATGGTGC  
CCGCTTGGCATAGCGCCCGGCTCCGGATCTTCTGTGCTGGGGCTCGGGAGGCGCCTGGGGCGGCCGAGGGGC  
GGCTGCGGGCACTGCTGAGCCAACCTGAGGATCCGGGCTGAGGTGCAGGAGGTGGTGTGGGGCGAGGGGGCCGGG  
CTGGGGGAACCCGAGGCGGAGGAGGAAGGGGACTTTGTGAACAGTGGGCGGGGAGACGCAGAGGCAGAGGCCCTGG  
CACGCAGCGCCAACGCCCTGGTTTCGGGCCCAGCAGGGGCGCGGCACAGGAGGAGGGCCGGGTGGGCCGGAGGGTG  
GGGATGCTGAGGGCCCCATCACAGCCCTCACCTTCCTGTACTTGCTCGGCCGCCAGCCGATCCCGCCCCGATAACC  
CCCGCTACCTGGCGCTACTGGAGACTCTAACCCGAGACCTGGGCCCCACGCTGCTGGTTTATGGGGTCACTCCAG  
TCACCTGCACTGATCTGTGATGCCCCCTGCCTCCAGGGCTAGGTAGAGAGGGGCCAGGCAGGCGGCCTATCCTGAT  
CCTTGGAGGAGGAGGAAGAGGAGGCCACTGTGGCCCGTGGCCCTGCCCTTGGGACGTGGAGCCAGGGGAGGTTT  
GAAGGGGATCCTGGGCTTGGGCATCACGCCACCTCCTTTGGCAGAGGGACCCAGCACACTAATCTGGGTGGC  
TGTCCCCACCGTGCAGGGGAGGGAGTCCGCAGCCTCCCTTCACTGGTGCCTTGATGCTAGGGGCCAGGCCTCCTC  
TGTGACTCTGGGCTACCTCAGTTTCCCCATTTTGGCCAGACTACCCGGCCCACTGGGGTGGTGTATGTTTTCTGTT  
TGTTTTATTTTCTAACTCTGCTGACCATGAATAAAGACCAAAACAC

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**FIGURE 2326**

GCGCGGGCAGGGCCGCACGAGCTGGCTGGCTGCTTGACCCACATCCTTCTTTCTCTGGGACCTGGGGTCGCGGT  
TACTTGGGCTGGCCGGCGAACCCTTGAGTGGCCTGGCGGGGAGCGGGCCTCGCGCGCCTGGAGGGCCCTGTGGAA  
CGAAGAGAGGCACACAGCATGGCAGAAAACCGAGAGCCCCGCGGTGCTGTGGAGGCTGAACTGGATCCAGTGGAA  
TACACCCTTAGGAAAAGGCTTCCCAGCCGCTTGCCCCGGAGACCCAATGACATTTATGTCAACATGAAGACGGAC  
TTTAAGGGCCAGCTGGCCCGCTGCCAGAAGCTGCTGGACGGAGGGGGCCGGGGTCAGAACGCGTGCTCTGAGATC  
TACATTCACGGCTTGGGCCTGGCCATCAACCACGCCATCAACATCGCGCTGCAGCTGCAGGCGGGCAGCTTCGGG  
TCCTTGACAGGTGGCTGCCAATACCTCCACCGTGGAGCTTGTTGATGAGCTGGAGCCAGAGACCGACACACGGGAG  
CCACTGACTCGGATCCGCAACAACCTCAGCCATCCACATCCGAGTCTTCAGGGTCACACCCAAGTAATTGAAAAGA  
CACTCCTCCACTTATCCCCTCCGTGATATGGCTCTTCGCATGCTGAGTACTGGACCTCGGACCAGAGCCATGTAA  
GAAAAGGCCTGTTCCCTGGAAGCCCCAAAGGACTCTGCATTGAGGGTGGGGGTAATTGTCTCTTGGTGGCCAGTT  
AGTGGGCCTTCCTGAGTGTGTGTATGCGGTCTGTAACATTGCCATATAAATAAAAAATCCTGTTGCACTAGTGT  
CCTGCCAAA

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**FIGURE 2327**

MAENREPRGAVEAELDPVEYTLRKRLPSRLPRRPNDIYVNMKTDFKAQLARCQKLLDGGARGQNACSEIYIHGLG  
LAINHAINIALQLQAGSFGSLQVAANTSTVELVDELEPETDTREPLTRIRNNSAIHIRVFRVTPK

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**FIGURE 2328**

GGAGGAAGACAGCGCCGCCCGCGCACCGCCAGCGACCTCCGCCGCAGAGTCCCACCGCCACAGGCCTCGGGCCAG  
CGGCCAGGAGCTGCCTCCCCAGCCCCCGTCCCGCGGCCCCAGCCGCCCCCAACCCTGCCCCACGGGCCCGGGC  
CCATGAGTGAGCTGGAGCAACTGAGACAGGAGGCCGAGCAGCTCCGGAACCAGATCCGGGATGCCCGAAAAGCAT  
GTGGGGACTCAAACTGACCCAGATCACAGCTGGGCTGGACCCAGTGGGGAGAATCCAGATGAGGACCCGGAGGA  
CCCTCCGTGGGCACCTGGCAAAGATCTATGCCATGCACTGGGGGACCGACTCAAGGCTGCTGGTCAGCGCCTCCC  
AGGATGGGAAGCTCATCATCTGGGACAGCTACACCACCAACAAGGTCCACGCCATCCCGCTGCGCTCCTCCTGGG  
TAATGACCTGTGCCTACGCGCCCTCAGGGAACCTTTGTGGCCTGTGGGGGGTTGGACAACATCTGCTCCATCTACA  
GCCTCAAGACCCGCGAGGGCAACGTCAGGGTCAGCCGGGAGCTGCCTGGCCACACTGGGTACCTGTCGTGTTGCC  
GCTTCCTGGATGACAACCAATCATCACCAGCTCTGGGGATACCACCTGTGCCCTGTGGGACATTGAGACAGGCC  
AGCAGACAGTGGGTTTTGCTGGACACAGTGGGGATGTGATGTCCCTGTCCCTGGCCCCGATGGCCGCACGTTTG  
TGTCAGGCGCCTGTGATGCCTCTATCAAGCTGTGGGACGTGCGGGATTCCATGTGCCGACAGACCTTCATCGGCC  
ATGAATCCGACATCAATGCAGTGGCTTTCTTCCCAACGGCTACGCCTTCACCACCGGCTCTGACGACGCCACGT  
GCCGCCTCTTCGACCTGCGGGCCGATCAGGAGCTCCTCATGTACTCCCATGACAACATCATCTGTGGCATCACCT  
CTGTTGCCTTCTCGCGCAGCGGACGGCTGCTGCTCGCTGGCTACGACGACTTCAACTGCAACATCTGGGATGCCA  
TGAAGGGCGACCGTGCAGGAGTCCTCGCTGGCCACGACAACCGCGTGAGCTGCCTCGGGGTACCGACGATGGCA  
TGGCTGTGGCCACGGGCTCCTGGGACTCCTTCCTCAAGATCTGGAATAATGGCCCCACCCCCACTGGGCCAGG  
CCAGGAGGGGCCCTGCCCATGCCACACTACAGGCCAGGGCTGCGGGGCTGGCGCAATCCCAGCCCCCTTCCCG  
GGCCACGGGGCCTTGGGTCCCTGCCCTCCCACCCAGGTTTGTTTCTCCCGGGGCCCCCACTGTGGAGATAAGAA  
GGGGATGGAATGGGGGAAGAGGAGGAGCAGGAGGCCCTCATCCTTCTGCTGCCCTGGGGTTGGGGCCTCACCCCT  
CTGGAGGGCCGGAGGCAGGAGGTGGAAACCCAGGGGCTGGCTTTTTTAAACTGGTTTTATTTTAATTTTTATT  
ATATTTTCAGTTTTTCCATAAAGGAGCCAATTCCAACCTCTGT



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**FIGURE 2329**

ATCCTGCTGCTGCCGCCACCGCTGCTGCTGCTCTGCAAAATTCAGCTGCTGCCTCTGTCTTGAGGACCCCAGCGC  
CTTTCCCCCGGGGCC**ATG**CTGCCTGCAGCCACAGCCTCCCTCCTGGGGCCCTCCTCACTGCCTGCGCCCTGCTG  
CCTTTTGGCCAGGGCCAGACCCCCAACTACACCAGACCCGTGTTCTGTGCGGAGGGGATGTGAAGGGGGAATCA  
GGTTACGTGGCAAGTGAGGGGTTCCCCAACCTCTACCCCCCTAATAAGGAGTGCATCTGGACCATAACGGTCCCC  
GAGGGCCAGACTGTGTCCCTCTCATTCCGAGTCTTCGACCTGGAGCTGCACCCCGCCTGCCGCTACGATGCTCTG  
GAGGTCTTCGCTGGGTCTGGGACTTCCGGCCAGCGGCTCGGACGCTTTTGTGGGACCTTCCGGCCTGCGCCCCTA  
GTCGCCCCCGGCAACCAGGTGACCCTGAGGATGACGACGGATGAGGGCACAGGAGGACGAGGCTTCCTGCTCTGG  
TACAGCGGGCGGGCCACCTCGGGCACTGAGCACCAATTTTGC GGGGGCGGCTGGAGAAGGCCCAGGGAACCCTG  
ACCACGCCCAACTGGCCCGAGTCCGATTACCCCCCGGGCATCAGCTGTTCTGGCACATCATCGCGCCCCCGGAC  
CAGGTTCATCGCGCTGACCTTCGAGAAGTTTGACCTGGAGCCGGACACCTACTGCCGCTATGACTCGGTCAGCGTG  
TTCAACGGAGCCGTGAGCGACGACTCCCGGAGGCTGGGGAAGTTCTGCGGCGACGCAGTCCCGGGCTCCATCTCC  
TCCGAAGGGAATGAACTCCTCGTCCAGTTCGTCTCAGATCTCAGTGTACCGCTGATGGCTTCTCAGCCTCCTAC  
AAGACCCTGCCGCGGGGCACTGCCAAAGAAGGGCAAGGGCCCGGCCCAAACGGGGAAGTGAAGCTAAAGTCAAG  
CTGCCCCCAAGTCCCAACCTCCGGAGAAAACAGAGGAATCTCCTTCAGCCCCTGATGCACCCACCTGCCCAAAG  
CAGTGCCGCCGACAGGCACCTTGCAGAGCAACTTCTGTGCCAGCAGCCTTGTGGTGAAGTGAAGTCC  
ATGGTTCGGGAGCCAGGGGAGGGCCTTGCCGTGACTGTCAGTCTTATTGGTGCTTATAAACTGGAGGACTGGAC  
CTGCCTTCTCCACCCACTGGTGCCTCCCTGAAGTTTACGTGCCTTGCAAGCAGTGCCCCCATGAAGAAAGGA  
GTCAGTTATCTGCTGATGGGCCAGGTAGAAGAGAACAGAGGCCCCGTCCTTCCTCCAGAGAGCTTTGTGGTTCTC  
CACCGGCCCAACCAGGACCAGATCCTCACCAACCTAAGCAAGAGGAAGTGCCCTCTCAACCTGTGCGGGCTGCT  
GCGTCCCAGGAC**TGA**GACGCAGGCCAGCCCCGGCCCCTAGCCCTCAGGCCTTCTTTCTTATCCAAATAAATGTTT  
CTTAATGA

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**FIGURE 2330**

MLPAATASLLGPLLTAALLPFAQGQTPNYTRPVFLCGGDVKGESGYVASEGFPNLYPPNKECIWTITVPEGQTV  
SLSFRVFDLELHPACRYDALEVFAGSGTSGQRLGRFCGTFRPAPLVAPGNQVTLRMTTDEGTGGRGFLLWYSGRA  
TSGTEHQFCGGRLEKAQGTLTTPNWPESDYPPGISCSWHIIAPPDQVIALTFEKFDLEPDITYCRYDSVSVFNNAV  
SDDSRRLGKFCGDAVPGSISSEGNELLVQFVSDLSVTADGFSASYKTLPRGTAKGQGPCKRGTEPKVKLPKPS  
QPPEKTEESPSAPDAPTCPKQCRRTGTLQSNFCASSLVVTATVKSMVREPGGLAVTVSLIGAYKTGGDLDPSP  
TGASLKFYVPCKQCPPMKKGVSYLLMGQVEENRGPVLPPESEFVVLHRPNQDQILTNLSKRKCPSQPVRAAASQD

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**FIGURE 2331**

GGAGAGGCAGAGACCCAGGGGAGCCGAGGAGCGGAGACACGGACCCAGCAGGGTCACGCGGGAGGAGACTCGGGA  
CACCCACTCGCTGGCTGCCACCGGGAGCAGAGGGGGGGCTCGGCCGCCCCCTCCCACATCAGTCTCCAGACCCCTG  
GGGCTTCAGAGGCCGCTCCTAGGCTCCTCGGAGGAGGCGCGGGTTTCTTCTTTTCCGGAGAGCAAACTTTCTCTG  
GAGATGCCTGGCAGGATGAGCCGCGGCCCCCGGAGAGGACGGGACAGCCTCTGATCGCCGCTGCGTGCCCCGCC  
ACTGCCCATGGCCAGGAGGCCCCAGGGAACGGACAGCCCGACCTCTTAGGCGCCGGGACCCCTCAGGCTCAGATCA  
GTGGCCGAGGCCCCAGAGTTTGCAAACCTCAGCTCTGGAGTTCAGCAGCAACAGCAGCAGGAAAAACCTGCCCCTG  
CTCCCCCTCCCGCCACCTCCCTCTCCTCTTCTCCCTCACCCAGCAGGCACCCCCGGTTCCCGCCAGGCCCTC  
CTGCCATGTGCGACCCAGACGTCCCCAGGGGCTCGGATGTCCCGCCATGTGGCCCCCTTGTTCCAGGGGTGCCT  
GAGCCCCTTCAAGGAGCCCCAACCCACCCCCAACCTTGGCCCAGCCCTGAGCCCCAGGGACCAATGAGCGGGGGCA  
AGAAGAAGAGTAGTTTCCAAATCACCAGCGTCACCACGGACTATGAGGGCCCTGGGAGCCCAGGGGCTTCGGATC  
CCCCTACCCACAGCCCCCAACCGGGCCCCCGCCCCGCCTGCCCAATGGGGAGCCCAGCCCCGATCCGGGGGGCA  
AGGGCACCCCCCGGAATGGCTCCCCACCACCTGGGGCCCCCTTCTCCCGTTTCCGGGTGGTGAAGCTGCCCCACG  
GCCTGGGAGAGCCTTATCGCCGCGGTGCTGAGCTGTGTGGATGTTTATGAGCGAGACCTGGAGCCCCACAGCT  
TCGGCGGACTCCTGGAGGGAATTCGAGGGGCCTCAGGGGGCGCCGGGGGCAGATCTTTGGATTCCAGGTTGGAGC  
TGGCCAGCCTCGGCCTGGGCGCCCCACCCACCGTCAGGCCTGTCTCAGGGCCCCACCTCCTGGCTCCGTCCAC  
CCCCACCTCTCCTGGACCTCAGGCCCGCTCCTTCACTGGGGGACTGGGCCAGCTGGTGGTGCCAGCAAAGCCA  
AGGCAGAGAAACCCCCACTGTGCGCCTCCTCACCCAGCAGCGCCCCCAGAGCCTGAGACCGGTGAGAGTGCGG  
GCACATCCCGGGCTGCCACGCCCCCTGCCCTCTCTGAGGGTGGAAGCGGAGGCTGGGGGCTCAGGGGCCAGGACCC  
CTCCACTGTCCCGGAGGAAAGCTGTAGACATGCGGCTGCGGATGGAGTTGGGTGCTCCAGAAGAGATGGGGCAGG  
TGCCCCCACTTGACTCTCGCCCCAGCTCCCCAGCCCTCTACTTCACCCACGATGCCAGCCTGGTTTACAAAATCTC  
CAGACCCCTTCGGAGCAGTAGCAGCTCAGAAGTTCAGCCTGGCCCACTCCATGTTGGCCATCAGTGGTCACCTAG  
ACAGCGACGATGATAGTGGCTCCGGAAGCCTGGTTGGCATTGACAACAAAATCGAGCAAGCCATGGACTTGGTGA  
AGTCCACCTCATGTTTTCGGTCCGGGAGGAGGTGGAGGTGCTGAAGGAGCAGATCCGGGAACCTGGCGGAGCGGA  
ACGCTGCGCTGGAGCAGGAGAATGGGCTGCTGCGCGCCCTGGCCAGCCCGGAGCAGCTGGCTCAGCTGCCCTCCT  
CGGGGGTCCCACGGCTTGGGCCCCCTGCGCCCAATGGGCCCTCCGTCTGAGCCTCCCTTCCCTTACAATGTGCCT  
TTGGGGCTGCCCCGGCCTTGCGTCAGCCGCCTGCCCCCTCTTCCATATGCAGCTTTAATGTCCCCGTGTCCCCGGGG  
TGGGAGTTCAAGGCTCAGTAATGGCCTGGTCCCCCGGCCCTGCCCATCTCCTCATCATCCCCAGCCTTGATGG  
AGGAGGGAGGGCTTCAGGACGGGGCGTCAGAGGGAGCCCCCTCTGGGAGGGAACCAACCCCCACCTCCCTCCTG  
GGACCCCCCAGCAGTAGACGGCTTGGGGGAGTCGGAGGCTCCCCGGCAGACACCCACCCCCATCTTGTTCCCTT  
GAGGTGCCCTCCTCTCCTCTGCCAGGGGAGGGAGTGTGGACAGTATCTGGAAGTTCTGGGATTGAGTTGTTATT  
AAAATAATAATAATAATTAATACTCTGAAGAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2332**

MSGGKKKSSFQITSVTTDYEGPGSPGASDPFTPQPPTGPPRLPNGEPSDPGGKGTPRNGSPPPGAPSSRFRVV  
KLPHGLGEPYRRGRWTCVDVYERDLEPHSFGGLEGIRGASGGAGGRSLDSRLELASLGLGAPTPPSGLSQGPTS  
WLRPPPTSPGPQARSFTGGLGQLVVPSKAKAEKPPLSASSPQQRPEPETGESAGTSRAATPLPSLRVEAEAGGS  
GARTPPLSRRKAVIDMRLRMELGAPEEMQVPPLDSPSSPALYFTHDASLVHKSPDPFGAVAAQKFSLAHSMMLAI  
SGHLDSDDDSGSGSLVGIDNKIEQAMDVLKSHLMFAVREEVEVLKEQIRELAERNAALEQENGLLRALASPEQLA  
QLPSSGVPRLGPPAPNGPSV

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**FIGURE 2333**

ATTTAAACTCCCAGAGCCGTTAAGTTGGTTTCGTAGTCTGATGCGCGCGCAACCAGGGTGGTGGCGGAGTGCGCAT  
GCGTGGTTCCGGGGCGAAGGGAACGCGCGCTCACCGTGCGCGCTCGCGGCCGGTGGTAGTGGCGGAGGAGAAAG  
GGGTGCGGCGACGCGCGGTTGAGTCCTCGAGTAGTTCGGGTCTCGCGGGCCTCTTGTGTTTTGGTCTCGCGGGCTAG  
TAGGGCGCACTTGGCGGGGAGGCGCTTGGGCGCGAGACTAGGCGTGAAGAGCAGAGCTGCGCGCGCACTCGGGAA  
AGGGGGGAAGGGAGCAGGGTCCAGGCAGGGGGGGTTAGGCCCCCTGATCCCCCTCGTTACCCCGACTGGCACGGA  
ATAAGGGGAGGAAATGATCGAGATGGCGGCGGAGAAGGAGCCGTTTCTGGTGCCGGCCCCCGCCGCCCGCTCAA  
AGATGAGTCGGGCGGAGGGGGCGCCCCACGGTGCCACCACCAAGAGGCCGCTCTGGGGAGCTCCGCGGCGG  
GACGGAGCGTGGTCCGGGTTCGTTGCGCGCCATCTGCGGGGTCCCCAGCCGCTGCGGTGCGTGGGAAAGCCCCGG  
GGCCGCGGCCACCTCCTCCAGTGGTCCCCAGGCGCAGCAGCACCGAGGGGGCGGCCCCAGGCGCAGTCGCATGG  
GGAGGGCCCGCTGTGCGATCCCCCGGGGCGAGCCGCTCCCCCGGACGTGGGGGAGGAGCGCCGGGGAGGGGGCGG  
GACAGAGCTGGGTCCCCCTGCTCCTCCTCGACCCCGCAATGGCTATCAGCCCCACCGGCCACCTGGGGGGGGCGG  
GGGCAAGAGGAGAAATAGCTGTAATGTAGGGGGAGGCGGGGGAGGCTTCAAACATCCGGCCTTCAAGAGGCGCAG  
GCGGGTGAATTCGGAATGTGACTCTGTGTTACCTTCCAACCTCCTCCTGGGGGGCAATATCTTTGATCCCCTGAA  
CCTGAATAGCCTCCTGGATGAGGAAGTGAGCCGCACTCTCAACGCGGAGACCCCTAAGTCATCCCCCTTCCGGC  
CAAAGGGCGAGATCCGGTGGAGATCCTCATCCCCAAGATATTACTGACCCGCTCAGTCTCAATACTTGCACTGA  
TGAGGGCCATGTAGTTCTTGCTTCGCCACTCAAGACTGGTTCGGAAGCGGCATAGACACCGGGGACAGCACCACCA  
GCAGCAGCAGGCAGCCGGAGGGAGTGAGAGCCACCCCGTGCCGCCACAGCCCTCTCACCCCTTACTCCACGG  
GGAGGGCGCCTCACAGCAGCCGCGGCACAGGGGCCAGAACC GGATGCCCCCAACCCTATGAACTCAACACAGC  
CATCAACTGCAGGGATGAAGTGGTGTCTCCCCTTCCATCTGCTCTGCAGGGTCCCTCAGGCTCCCTATCAGCCCC  
TCCAGCTGCCTCAGTTATCTCTGCACCCCCATCTTCTCCTCCCGACATCGCAAACGTGCGAGGACTTCCAGCAA  
GTCGGAGGCAGGGGCTAGGGGTGGAGGCCAGGGTTCCAAGGAAAAGGGCCGAGGGAGTTGGGGAGGCCGCCACCA  
CCACCACCACCCACTGCCTGCAGCAGGCTTCAAAAAGCAACAGCGCAAGTTCCAGTATGGGAATTATTGCAAATA  
CTATGGGTACCGCAATCCTTCTGTGAGGATGGGCGCCTTCGGGTGTTGAAGCCTGAGTGGTTTTCGGGGCCGGGA  
CGTCTTAGATCTGGGCTGCAATGTGGGCCATCTGACCCTGAGCATTGCCTGCAAGTGGGGCCCGTCCCGCATGGT  
GGGCTTGATATCGATTCCCGGCTCATCCATTCTGCCCGCCAAAACATCCGACACTACCTTTCCGAGGAGCTGCG  
TCTCCACCCACAGACTTTGGAAGGGGACCCGGGGGCGAGGGGTGAGGAAGGGACCACCACCGTTGCAAGAGGAG  
CTGCTTCCCAGCCTCGCTGACTGCCAGCCGGGTCCCATCGCTGCCCCCAAGTGCCCTTGATGGAGCGGACAC  
ATCAGTCTTCCCCAACAATGTTGTCTTCGTACGGGTAATTATGTGCTGGATCGAGATGACCTGGTGGAGGCCCA  
AACACCTGAGTATGATGTGGTGTCTGCCTCAGCCTCACCAAGTGGGTGCATCTGAACTGGGGAGACGAGGGCCT  
GAAGCGCATGTTTCGCCGATCTACCGGCACCTACGCCCTGGGGGCATCCTGGTCTAGAGCCCCAACCCTGGTC  
GTCGTATGGCAAGAGAAAGACTCTTACAGAAAACGATCTACAAGAACTACTACCGAATCCAATTGAAGCCAGAGCA  
GTTTCAGTTTCTACCTGACATCCCCAGACGTGGGCTTCTCCAGCTATGAGCTTGTGGCCACACCCCAACACCTC  
TAAAGGCTTCCAGCGTCTGTGTACCTGTTCCACAAGGCCCCGATCCCCAGCCACTAAGTGGCCCCCTAAACAGA  
AAGTGTGAAGAGGCTGCCCTCGCTGCTCATAAGGACCTGGGGGAAGAGGAAAGTGTCCAAGGTCTTCTCTTCT  
GACTCCAAAAATAGTTTTCTTTCTTGATCTGCAAAGAAAGCTTTTCTTCCGTGCTGCCTCAGCCTCCTCCCTA  
TGCTCTGGCACCTGCGCAGCAAGGCTGGCTGTGCTGGAGTACCATCATCTTCTCTCCCCAGCCTCCAGGC  
TGGATGGCATGGACTGTTTGCTGACCTCTGTTCTCTTAGGGCATGGGAGGTGGGAGGATATCAAATTCTCTAGCC  
CTTCTCTCTATTCTCTAGCCCTTCTATTCTCCAAGGAGAGAGATTCCATTCTCTCTCGGCCATTGTACCTAG  
CTCTTGTCCCTAGCTGCATTTTCAGTGGACCATGGATAGAGGGACTGAGGGTTAGACGGAGAAGACTGGCAGGGAG  
GCACGCAGGTACTGTGAAAATCCTTCCCTTGGCCCTCCCCAGTGGGAGAGGGGGTTGGGTTTTCAATGTGAGAA  
CAGCACAATAAACTTGATGTCTAGGGCAGTGGCCCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAA

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**FIGURE 2334**

MVGLDIDSRLIHSARQNIRHYLSEELRLPPQTLEGDPGAEGEGTTTVRKRSCTPASLTASRGPIAAPQVPLDGA  
DTSVFPNNVVFVTGNYVLD RDDLVEAQTPEYDVVLCLSLTKWVHLNWGDEGLKRMFRIYRHLRPGGILVLEPQP  
WSSYGKRKTLTETIYKNYYRIQLKPEQFSSYLTS PDVGFSSYELVATPHNTSKGFQRPVYLFHKARSPSH

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**FIGURE 2335**

GGCACGAGGGGAAGTGGCTGTTTGGCTGCTGACAACATGAAGACTTCCTGCGATGAGAACAGAGGCACAGGTGCC  
GGCCCTGCAGCCCCCAGAACCTGGACTGGAGGGGGCCATGGGGCACC GGACCCTGGTCCTGCCCTGGGTGCTGCT  
GACCTTGTGTGTCACTGCGGGGACCCCGAGGTGTGGGTTCAAGTTCGGATGGAGGCCACCGAGCTCTCGTCCTT  
CACCATCCGTTGTGGGTTCTGGGGTCTGGCTCCATCTCCCTGGTGA CTGTGAGCTGGGGGGGCCCCGACGGTGC  
TGGGGGGACCACGCTGGCTGTGTTGCACCCAGAACGTGGCATCCGGCAATGGGCCCCCTGCTCGCCAGGCCCGCTG  
GGAAACCCAGAGCAGCATCTCTCTCATCCTGGAAGGCTCTGGGGCCAGCAGCCCCCTGCGCCAACACCACCTTCTG  
CTGCAAGTTTGCGTCCTTCCCTGAGGGCTCCTGGGAGGCCTGTGGGAGCCTCCCGCCCAGCTCAGACCCAGGGCT  
CTCTGCCCCGCGACTCCTGCCCCCATTTCTGCGGGCAGACCTGGCCGGGATCTTGGGGGTCTCAGGAGTCTCCT  
CTTTGGCTGTGTCTACCTCCTTCATCTGCTGCGCCGACATAAGCACC GCCCTGCCCCCTAGGCTCCAGCCGTCCCG  
CACCAGCCCCCAGGCACCGAGAGCACGAGCATGGGCACCAAGCCAGGCCTCCCAGGCTGCTCTTCACGTCCCTTA  
TGCCACTATCAACACCAGCTGCCGCCCAGCTACTTTGGACACAGCTCACCCCATGGGGGGCCGTCCTGGTGGGC  
GTCACTCCCCACCCACGCTGCACACCGGCCCCAGGGCCCTGCCGCCTGGGCCTCCACACCCATCCCTGCACGTGG  
CAGCTTTGTCTCTGTTGAGAATGGACTCTACGCTCAGGCAGGGGAGAGGCCTCCTCACACTGGTCCCGGCCTCAC  
TCTTTTCCCTGACCCTCGGGGGCCCCAGGGCCATGGAAGGACCCTTAGGAGTTCGATGAGAGAGACCATGAGGCCA  
CTGGGCTTTCCCCCTCCCAGGCCTCCTGGGTGTCTATCCCTTACTTTAATTCTTGGGCCTCCAATAAGTGTCCCA  
TAGGTGTCTGGCCAGGCCACCTGCTGCGGATGTGGTCTGTGTGCGTGTGTGGGCACAGGTGTGAGTGTGTGAGT  
GACAGTTACCCCATTTAGTCATTTCTGCTGCAACTAAGTCAGCAACACAGTTTCTCTGAAAAAAAAAAAAAA  
AAAA

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**FIGURE 2336**

MRTEAQVPALQPPEPGLEGAMGHRTLVLWPVLLTLCVTAGTPEVWVQVRMEATELSSFTIRCGFLGSGSISLVTV  
SWGGPDGAGGTTLAVLHPERGIRQWAPARQARWETQSSISLILEGSGASSPCANTTFCKFASFPEGSWEACGSL  
FPSSDPGLSAPPTPAPILRADLAGILGVSGVLLFGCVYLLHLLRRHKHRPAPRLQPSRTSPQAPRARAWAPSQAS  
QAALHVPYATINTSCRPATLDTAHPHGGPSWWASLPTHAAHRPQGPAAWASTPIPARGSFVSVENGLYAQAGERP  
PHTGPGLTLFPDPRGPRAMEGPLGVR



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**FIGURE 2337**

AAGGGTCTAGGATACAGTCTTTGTAGATGAGCGGGTCCCCCTTGGAGGACAGAATGAAGAATTGGGAAATCATGG  
CCGTTCTGGAGAGTAGACAAGAAGACGGCGAAAAGTCGGGCCTGCCCCGCCCTGCGGCCCCGGAACAAAAGAACGC  
GTGTGCGCTGGCCCTTTAAGAGCGATTCTCCTCCGCCCGCGCCAGCTCGGACCGCGGGAAACCCGGCGCCTGCAC  
TACCCCGCCCGGAGATTCCCTTCCGACGCCCCGACCGCCTCCCCGTCACTCATTCTAGGCCCCGCACGGTGATTGG  
CTTGGCGCTAGCGGGAGGTGAAGAAGGCCGCTTGTCCGATTGGCCCCGCACGCAGTGGCGCCGGTCACGTGGGGG  
GCGACGTTTCGCGCCAATTTCCGTTGGCCGGCCACAGTCCACCGCGCGGAGATTCTCAGCTTCCCCAGGAGCAAG  
ACCTCTGAGCCCGCAAGCGCGGCCGCACGGCCCTCGGCAGCGATGGCACTGAAGGACTACGCGCTAGAGAAGGA  
AAAGGTAAAGAAGTTCTTACAAGAGTTCTACCAGGATGATGAAGTTCGGGAAGAAGCAGTTCAAGTATGGGAACCA  
GTTGGTTCGGCTGGCTCATCGGGAACAGGTGGCTCTGTATGTGGACCTGGACGACGTAGCCGAGGATGACCCCGA  
GTTGGTGGACTCAATTTGTGAGAATGCCAGGCGCTACGCGAAGCTCTTTGCTGATGCCGTACAAGAGCTGCTGCC  
TCAGTACAAGGAGAGGGAAGTGGTAAATAAAGATGTCTTGACGTTTACATTGAGCATCGGCTAATGATGGAGCA  
GCGGAGTCGGGACCCCTGGGATGGTCCGAAGCCCCCAGAACCAGTACCCTGCTGAAGTCAATGCGCAGATTGTGAGT  
GGTCTCTGTGCGGAAAGATGTAGGGATTGGTTCTCCAGGATCTTGTGTTGTGACTGTTTTCTCCCTTAGTGAGCT  
GTATTTTCAAGGCCCTAGCAGCAACAAGCCTCGTGTGATCCGGGAAGTGC GGCTGACTCTGTGGGGAAGTTGGT  
AACTGTGCGTGGAATCGTCACTCGTGTCTCTGAAGTCAAACCCAAGATGGTGGTGGCCACTTACACTTGTGACCA  
GTGTGGGGCAGAGACCTACCAGCCGATCCAGTCTCCCACTTTTCATGCCTCTGATCATGTGCCAAGCCAGGAGTG  
CCAAACCAACCGCTCAGGAGGGCGGCTGTATCTGCAGACACGGGGCTCCAGATTCAATCAAAATTCAGGAGATGAA  
GATGCAAGAACATAGTGATCAGGTGCCTGTGGGAAATATCCCTCGTAGTATCACGGTGCTGGTAGAAGGAGAGAA  
CACAAGGATTGCCAGCCTGGAGACCACGTACGCGTCACTGGTATTTTCTTGCCAATCCTGCGCACTGGGTTCGG  
ACAGGTGGTACAGGGTTTACTCTCAGAAACCTACCTGGAAGCCCCATCGGATTGTGAAGATGAACAAGAGTGAGGA  
TGATGAGTCTGGGGCTGGAGAGCTCACCAGGGAGGAGCTGAGGCAAATTGCAGAGGAGGATTTCTACGAAAAGCT  
GGCAGCTTCAATCGCCCCAGAAATATACGGGCATGAAGATGTGAAGAAGGCACTGCTGCTCCTGCTAGTCGGGGG  
TGTGGACCAGTCTCCTCGAGGCATGAAAATCCGGGGCAACATCAACATCTGTCTGATGGGGGATCCTGGTGTGGC  
CAAGTCTCAGCTCCTGTCTACATTGATCGACTGGCGCCTCGCAGCCAGTACACAACAGGCCGGGGCTCCTCAGG  
AGTGGGGCTTACGGCAGCTGTGCTGAGAGACTCCGTGAGTGGAGAAGTACCTTAGAGGGTGGGGCCCTGGTGTCT  
GGCTGACCAGGGTGTGTGCTGCATTGATGAGTTCGACAAGATGGCTGAGGCCGACCGCACAGCCATCCACGAGGT  
CATGGAGCAGCAGACCATCTCCATTGCCAAGGCCGGCATTCTCACCACACTCAATGCCCGCTGCTCCATCCTGGC  
TGCCGCCAACCCCTGCCTACGGGCGCTACAACCCCTCGCCGCAGCCTGGAGCAGAACATACAGCTACCTGCTGCACT  
GCTCTCCCGTTTTGACCTCCTCTGGCTGATTGAGGACCGGCCCGACCGAGACAATGACCTACGGTTGGCCCAGCA  
CATCACCTATGTGCACCAGCACAGCCGGCAGCCCCCTCCAGTTTGAACCTCTGGACATGAAGCTCATGAGGCG  
TTACATAGCCATGTGCCGCGAGAAGCAGCCCATGGTGCCAGAGTCTCTGGCTGACTACATCACAGCAGCATACGT  
GGAGATGAGGCGAGAGGCTTGGGCTAGTAAGGATGCCACCTATACTTCTGCCCGGACCCTGCTGGCTATCCTGCG  
CCTTTCCACTGCTCTGGCACGTCTGAGAATGGTGGATGTGGTGGAGAAAGAAGATGTGAATGAAGCCATCAGGCT  
AATGGAGATGTCAAAGGACTCTCTTCTAGGAGACAAGGGGCAGACAGCTAGGACTCAGAGACCAGCAGATGTGAT  
ATTTGCCACCGTCCGTGAAGTGGTCTCAGGGGGCCGAAGTGTCCGGTTCTCTGAGGCAGAGCAGCGCTGTGTATC  
TCGTGGCTTACACCCGCCCAGTTCCAGGCGGCTCTGGATGAATATGAGGAGCTCAATGTCTGGCAGGTCAATGC  
TTCCCGGACACGGATCACTTTTGTCTGATTCCAGCCTGCTTGCAACCCTGGGGTCTCTTGTTCCTGCTGGCCT  
GCCCCCTTGGGAAGGGGCAGTGATGCCTTTGAGGGGAAGGAGGAGCCCCCTCTTCTCCCATGCTGCACTTACTCCT  
TTTGCTAATAAAAGTGTGTTGTAGATTGTCATCTTCTAGCCTGGGCCTGACTTCCATTAAACAGGGTTTTGTGCG  
TTTTTTAGATTCCGTGTTGTTTTATGCTATTTCACTCAGTAAATTACCTGAGTAAAGTGCATCTCCCTGC  
CAGGCCCCCAGTATAGACACTGGGGATGCGGCAAGGACTAAGCGGTCCCTGCTGTTTGAGATACTTAAGATGGG  
GCTCCACTTTTTGAGCCCCCGACTCCCT

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**FIGURE 2338**

GGCACGAGGGGAAAATGGCGGCGGCGGCGGCGGCGGCTGCAGCTACGAACGGGACCGGAGGAAGCAGCGGGATGG  
AGGTGGATGCAGCAGTAGTCCCCAGCGTGATGGCCTGCGGAGTGACTGGGAGTGTTCCGTCGCTCTCCATCCCC  
TTGTCATTCTCAACATCTCAGACCACTGGATCCGCATGCGCTCCCAGGAGGGGCGGCCTGTGCAGGTGATTGGGG  
CTCTGATTGGCAAGCAGGAGGGGCCGAAATATCGAGGTGATGAACCTCCTTTGAGCTGCTGTCCCACACCGTGGAAG  
AGAAGATTATCATTGACAAGGAATATTATTACACCAAGGAGGAGCAGTTTAAACAGGTGTTCAAGGAGCTGGAGT  
TTCTGGGTGGGTATACCACAGGGGGGCCACCTGACCCCTCGGACATCCACGTCCATAAGCAGGTGTGTGAGATCA  
TCGAGAGCCCCCTCTTTCTGAAGTTGAACCTATGACCAAGCACACAGATCTTCCTGTGACGTTTTTGTGAGTCTG  
TCATTGATATAATCAATGGAGAGGCCACAATGCTGTTTGCTGAGCTGACCTACACTCTGGCCACAGAGGAAGCGG  
AACGCATTGGTGTAGACCACGTAGCCCGAATGACAGCAACAGGCAGTGGAGAGAACTCCACTGTGGCTGAACACC  
TGATAGCACAGCACAGCGCCATCAAGATGCTGCACAGCCGCGTCAAGCTCATCTTGAGTACGTCAAGGCCTCTG  
AAGCGGGAGAGGTCCCCTTTAATCATGAGATCCTGCGGGAGGCCTATGCTCTGTGTCACCTGTCTCCCGGTGCTCA  
GCACAGACAAGTTCAAGACAGATTTTTATGATCAATGCAACGACGTGGGGCTCATGGCCTACCTCGGCACCATCA  
CCAAAACGTGCAACACCATGAACCAGTTTGTGAACAAGTTCAATGTCTCTACGACCGACAAGGCATCGGCAGGA  
GAATGCGCGGGCTCTTTTTCTGATGAGGGTACTTGAAGGGCTGATGGACAGGGGTCAGGCAACTATCCCAAAGG  
GAGGGCACTACACTTCCTTGAGAGAAACCGCTGTCATTAATAAAAGGGGAGCAGCCCCTGAGCACCAAAAAAAAA  
AAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2339**

MACGVTGSVSVALHPLVILNISDHWIRMRSQEGRPVQVIGALIGKQEGRNIEVMNSFELLSHTVEEKIIIDKEYY  
YTKEEQFKQVFKELEFLGWYTTGGPPDPSDIHVHKQVCEIIESPLFLKLNPMTKHTDLPVSVFESVIDIINGEAT  
MLFAELTYTLATEEAERIGVDHVARMTATGSGENSTVAEHLIAQHSAIKMLHSRVKLILEYVKASEAGEVPFNHE  
ILREAYALCHCLPVLSTDKFKTDFYDQCNDVGLMAYLGTITKTCNTMNQFVNKFNVLYDRQGIGRRMRGLFF

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**FIGURE 2340**

GCTTCCGGCACGGGATGTTTTTCGGTTGTTTGACCGAGAGAGTTGTAGGCGCAAAGCTGAGGAAAGGAGAGTGTGG  
AGAGGGGCCCTGGTGTGGTGGGGCCCGGTGTTTGGGACCGGAGGGTGTGACGGCTGATGAGTTCCTTGGGTTTGC  
TCTTCTTTCACCTGAAAAGAAGACTCCAGGAAGGGCAGCACATGCCGGAGAAAGATGAATTGCAGCTTGACCGCC  
CAGAGGCGCGGCAGTGACGCCGAGTTGGGACCCTGGGTGATGGCTGCGAGGTCCAAGGACGCGGCGCCGTCCCAA  
CGCGACGGACTTTTGCCCGTGAAAGTGGAGGAAGACTCACCCGGAAGTTGGGAGCCCAACTATCCCGCGGCTTCG  
CCGGACCCCGAAACTTCTCGACTGCACTTTAGGCAGCTGCGTTACCAGGAGGTGGCTGGACCGGAAGAGGCGCTG  
AGCCGGCTCCGAGAACTCTGTCTGTCGGTGGCTGAGACCCGAGCTGCTCTCCAAGGAGCAGATCCTGGAGCTGCTG  
GTGCTGGAGCAGTTCTCTACCATCCTGCCCCGAGGAGCTTCAAGCCTGGGTGCGAGAGCACTGCCCAGAGAGCGGG  
GAGGAGGCGGTGGCCGTGGTGCAGGCTCTGTCAGCGAGCGCTCGATGGAACCTCATCCCAGGGGATGGTGACTTTC  
GAGGACACGGCTGTGTCTTAACCTGGGAGGAGTGGGAGCGCCTGGACCCAGCACGGAGGGACTTCTGCAGAGAG  
AGTGCGCAGAAGGATTCCGGGAGCACAGTTCCGCCGAGTTTGGAAAGCAGAGTGGAGAACAAAGAGTTGATTCCA  
ATGCAACAAATTTTAGAAGAAGCGGAGCCACAGGGGCAACTACAAGAAGCGTTCCAGGGGAAGCGCCCCCTGTTT  
TCTAAGTGTGGCAGTACCCATGAGGACAGGGTGGAAAAGCAGTCCGGAGACCCCTTGCCCCCTGAAACTTGAAAT  
TCTCCTGAAGCAGAAGGACTCAACAGCATCTCAGATGTCAATAAGAATGGTTCCATAGAAGGGGAAGACTCTAAA  
AATAATGAATTGCAGAACAGTGCCAGGTGTTCCAACCTGTTCTATGTCAGCACATCCCGAAAGCAGAGAGGCC  
ACTGACAGTGAGGAACACGGGAACAAGTGCAAGCAAAGTTTCCACATGGTGACGTGGCACGTGCTGAAACCTCAC  
AAGTCTGACAGTGGAGACAGTTTCCATCATTCCAGCCTTTTTGAGACCCAGAGGCAGCTCCATGAAGAAAGACCT  
TATAAATGTGGTAACTGTGGGAAGAGTTTCAAACAACGCTCTGACCTCTTTAGACACCAGAGAATCCACACAGGT  
GAGAAACCCCTATGGCTGCCAAGAATGTGGGAAAAGCTTCAGCCAGAGTGCTGCCCTGACCAAGCACCAGAGGACA  
CACACAGGCGAGAAGCCGTACACCTGTCTGAAATGTGGGGAGCGCTTCAGGCAGAATTCACACCTAAATCGTCAT  
CAAAGTACCCACAGTAGAGACAAACATTTTAAATGTGAGGAATGCGGGGAAACCTGTCTATTTTCCAACCTTTTT  
AGACATCAGAGACTACATAAAGGGGAAAGACCCTATAAGTGTGAAGAATGCGAGAAGAGCTTCAAACAGCGCTCT  
GACCTCTTTAAACACCACAGAATCCACACTGGGGAGAAGCCCTATGGATGTTCCGTCTGTGGGAAACGCTTCAAT  
CAGAGTGCAACCCTCATTAAACACCAGAGAATTCACACTGGGGAAAAGCCTTACAAATGTCTTGAATGTGGGGAA  
AGATTTAGACAAAGTACACACCTTATCCGACACCAAAGAATTCATCAAAATAAAGTGCTGTGGCTGGGCGTGGT  
GGCTCACGCCATAAATCCCAGCACTTTGGGAGGCCAAGGCAGGCAGATCATTTGAGATCAGGAGTTTGAAACCAG  
CCTGGCCAACATGGTGAATTTCTGTCTCTACTAAAAATACAAAAATGAGCCGGGCATGGTGGTGCATGCCTGTAA  
GCCCAGCTATTCCGGGAGGCTGAGGTAGGAGAATCACTTGAACCCAGGAGGCGGAAGTTGCAGTGAGCTGAGATCA  
TGCCACTGCACTCCAGCCTGGGCAACAGAGCGAGACTCCATCTCAAAAAAGAAATAAAGTGCTGTCTATTTTGAT  
ATGTT

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**FIGURE 2341**

MNCSLTAQRRGSDAELGPWVMAARSKDAAP SQRDGLLPVKVEEDSPGSWEPNYPAA SPDPETSRLHFRQLRYQEV  
AGPEEALSRLRELCRRWLRPELLSKEQILELLVLEQFLTILPEELQAWVREHCPESGEEAVAVVRALQRALDGTS  
SQGMVTFEDTAVSLTWEWERLDPARRDFCRESAQKDSGSTVPPSLESRVENKELIPMQQILEEAEPQGQLQEAF  
QGKRPLFSKCGSTHEDRVEKQSGDPLPLKLENSPEAEGLNSISDVNKNCSI EGEDSKNNELQNSARCSNLVLCQH  
IPKAERPTDSEEHGNKCKQSFHMTWHLKPHKSDSGDSFHHSSLFETQRQLHEERPYPKCGNCGKSFKQRSDLFR  
HQRHTGEKPYGCGECGKSFSQSAALTKHQRTHTGEKPYTCLKCGERFRQNSHLNRHQSTHSRDKHFKCEECGET  
CHISNLFRRHQLHKGEPYKCEECEKSFKQRSDLFKHHRIHTGEKPYGCSVCGKRFNQSATLIKHHRIHTGEKPY  
KCLECGERFRQSTHLIRHQRIHQNKVLSAGRGG SRL

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**FIGURE 2342**

GGGCACAGCGGACACCAGGACTCCAAAATGGCGTCAGTTGGTGAGTGTCCGGCCCCAGTACCAGTGAAGGACAAG  
AAACTTCTGGAGGTCAAAC TGGGGGAGCTGCCAAGCTGGATCTTGATGCGGGACTTCAGTCCTAGTGGCATTTC  
GGAGCGTTTCAAAGAGGTTACTACCGGTACTACAACAAGTACATCAATGTGAAGAAGGGGAGCATCTCGGGGATT  
ACCATGGTGCTGGCATGCTACGTGCTCTTTAGCTACTCCTTTTCCTACAAGCATCTCAAGCACGAGCGGCTCCGC  
AAATACCACTGAAGAGGACACACTCTGCACCCCCCACCACGACCTTGGCCCGAGCCCCTCCGTGAGGAACAC  
AATCTCAATCGTTGCTGAATCCTTTCATATCCTAATAGGAATTAACCTCCAAATAAAACATGACTGGTAAAAAA  
AA

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**FIGURE 2343**

MASVGECPAPVPVKDKKLEVKLGELPSWILMRDFSPSGIFGAFQRGYYRYN KYINVKKGSISGITMVLACYVL  
FSYSFSYKHLKHERLRKYH

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**FIGURE 2344**

TCGCTCGCTCCTCCTTCGCTTCGCCTCGCCGCCGCCATGCAGGAAATCATCGCCAGCGTGGACCACATCAAGTTT  
GACTTGGAGATCGCGGTGGAGCAGCAGCTGGGGGCGCAGCCGCTGCCCTTCCCCGGCATGGACAAGTCGGGCGCT  
GCTGTCTGTGAATTCTTTTTGAAAGCTGCCTGCGGCAAAGGGGGCATGTGTCCGTTTCGCCACATCAGTGGTGAG  
AAGACAGTTGTGTGCAAACACTGGCTGCGTGGCCTATGCAAGAAAGGGGACCAGTGTGAGTTCCTGCATGAGTAT  
GACATGACCAAGATGCCCCGAGTGCTACTTCTACTCCAAGTTCGGGGAGTGCAGCAACAAGGAATGTCCCTTCCTG  
CACATCGACCCCGAGTCCAAGATCAAGGACTGTCCCTTGGTATGACCGCGGCTTCTGCAAGCACGGTCCCCCTCTGC  
AGGCACCGGCACACACGGAGAGTCATCTGTGTGAATTACCTCGTGGGATTCTGCCCGGAGGGGCCCTCGTGTA  
TTCATGCACCCTCGATTTGAACTGCCCATGGGAACCCAGAGCAGCCCCCACTGCCACAGCAGACACAGCCTCCA  
GCAAAGCAAAGTAACAATCCGCCATTACAAAAGTTCCTCCTTGATCCAGTTAACGAGTCAGAACTCTTCTCCC  
AATCAGCAGAGAACCCCGCAGGTTCATCGGGGTTCATGCAGAGTCAAACAGCAGCGCGGGCAACCGGGGACCCCGG  
CCACTGGAGCAGGTACCTGTTACAAGTGTGGCGAGAAAGGACACTACGCCAACAGATGCACCAAAGGGCACTTG  
GCCTTTCTCAGTGGACAGTGACAGCAGCTGGAGCCAGCTCCGAGCAGCCCGGGGGCCCCGCTGTTGGGAGTGTGC  
ATTTAACTGTTTCATGCGCTTGTGGCGCGACTGTGGCTCGAGCTGGCCCGCAGACACGTGGGTTTCATCACTCT  
GAGGGGCCACGTCGTAGTTTCTATCATTTTGCCGTAGTATTTTTTGAAAAGGGACATGTGTCTCTGTGGGTC  
CCTGCAGTCGACATCATGTTTGGCTGGGCATCGATGCCTCCTTTCTGGGACTCCCGGCACAACCTCCCCCTCATCCA  
GGGAGGGAGGCAGCTGCTGGGGAGGGGCTTGGCTAGGTAGTTCTGTGTGGCGGTGGTCATTCCCCTCATTAACA  
CCAGTTCTTGGTGACGCCAGGGGCTGGTAGGTCAATCAAAGCTGTGGCCAGCTCACGCCTGCTTCTCCTCCCTCCCT  
GCCCTGCTGAATCCTAAAGCTGTGCCTATATCTGTGATTTGAATGAGGGAGCCCTTTGGGGCAAATTCAGGTGCC  
CCCATTGCCTCAGGCTGGCCCTGGTCCCAGGTGGCAGCGGTTGAGGAGGGGTACAGGGCTCTCAAGCCTGAGGTT  
TTCTTCTCTGGGCTTAATTTTCTCTTGGGGTACGTGCCTGACAGTGTTTAAGGTGTCCGTTGAACTGGAGTTGCA  
GACTTTTAAATAGATGACCCCTTCAGATCATCTGTGCCTACCTCCTGCCCATCAGGCGTCTACACTGTCACTCAG  
ACACCTGTGGCATGTGGAGGAGACTGCCCTGTCTGAGCCTGGAAAATGTGAACTGTCTCCTGCAACCTGCTGG  
GCATGTGGGCCTGGCTGTGTTCAATTGCAAGAACAATTTTTATGAAATGGATTAAAGCTTGTTTTTT



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**FIGURE 2345**

MQEIIASVDHIKFDLEIAVEQQQLGAQPLPFPMDKSGAAVCEFFLKAACGKGGMCPFRHISGEKTVVCKHWLRGL  
CKKGDQCEFLHEYDMTKMPECYFYSKFGECSNKECPFLHIDPESKIKDCPWYDRGFCKHGPLCRHRHTRRVICVN  
YLVGFCPEGPSCKFMHPRFELPMGTTEQPPLPQQTOPPAKQSNNPPLQRSSSLIQLTSQNSSPNQORTPQVIGVM  
QSQNSSAGNRGPRPLEQVTCYKCGEKGHYANRCKGHLAFLSGQ

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**FIGURE 2346**

CTGAGGCGGGAGACCGGTGGTCTGCACCGTCCTGGAGGGAGATATGAGTGGCTGGACTCTCAGCCAGCCACTGGG  
ATGTGTTTCGGGCTTTGGACCTTGAGGCCGGAGAGAGCTCCCGAGAGGAGGCGGCCACGTTTCGTTCTTCTGAGG  
GGACGGTAGATTTGGGGGTTTTCTCTAGGATTCTCGCGCCGTTTTCTCTGAAGAAACAGGACCAGAGAGGGAAG  
GTGACCTGAAAGTCACAGAATAATTTTTTAGAGCTGAACAAGAATCCAAGCCTGCAACTGCAGAGACGAGAGATC  
TTTCTGCTGTCTATACTCTTGAAAAGCACATCCTAAGATCTTTGCAGATTATCCTGTGGAAGGAAAATGCCTAAA  
GTCAAAAGAAGCCGGAAGCACCCCCAGATGGCTGGGAGTTGATTGAGCCAACACTGGATGAATTAGATCAAAAG  
ATGAGAGAAGCTGAAACAGAACCGCATGAGGGAAAAGAGGAAAGTGAATCTCTGTGGCCCATCTTCAGGATCCAC  
CACCAGAAAACCCGCTACATCTTCGACCTCTTTTACAAGCGGAAAGCCATCAGCAGAGXXXXXXXXXXXXXXXXXX  
XXXXXXXXXXXXXXXXXXXXACAAAAACCTGATTGCAAAATGGAAAAAGCAAGGATATGAGAACTTGTGCTGCCTG  
CGGTGCATTAGACACGGGACACCAACTTCGGGACGAACTGCATCTGCCGCGTGCCCAAAGCAAGCTGGAAGTG  
GGCCGCATCATCGAGTGCACACACTGTGGCTGTCTGGCTGCTCTGGCTGAGGCTGGCGCGCTCCACCCTGGACT  
CTGGACTTCGCAGGTTCTGCTGTACGCCACCCCTTCCTGGGAGCAGCGAGCAGTGCCCCAGGCCCGAGTTG  
GAGCACGGTCTCTATGGGAAGGCTTCGCTGTCTATCAGCTGTGATTTGTAAAATAAAATCTTTAAATCTCTCG

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**FIGURE 2347**

MPKVKRSRKAPPDGWELIEPTLDELDQKMREAETEPHEGKRKVESLWPIFRIHHQKTRYIFDLFYKRKAISRXXX  
XXXXXXXXXXKNLIAKWKQGYENLCCLRCIQTRDTNFGTNCICRVPSKLEVGRIIECTHCGCRGCSG

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**FIGURE 2348**

GGCACGAGGGAGCCCAGAGCCGGTTCGGCGCGTCGACTGCCAGAGTCCGCGGCCGGGGCGCGGGAGGAGCCAAG  
CCGCCATGGCCTACCACAGCTTCCTGGTGGAGCCCATCAGCTGCCACGCCTGGAACAAGGACCGCACCCAGATTG  
CCATCTGCCCCAACCAACCATGAGGTGCATATCTATGAAAAGAGCGGTGCCAAATGGACCAAGGTGCACGAGCTCA  
AGGAGCACAACGGGCAGGTGACAGGCATCGACTGGGCCCCGAGAGTAACCGTATTGTGACCTGCGGCACAGACC  
GCAACGCCTACGTGTGGACGCTGAAGGGCCGCACATGGAAGCCCACGCTGGTCATCCTGCGGATCAACCGGGCTG  
CCCGCTGCGTGCGCTGGGCCCCCAACGAGAACAAGTTTGCTGTGGGCAGCGGCTCTCGTGTGATCTCCATCTGTT  
ATTTTCGAGCAGGAGAATGACTGGTGGGTTTGCAAGCACATCAAGAAGCCCATCCGCTCCACCGTCCTCAGCCTGG  
ACTGGCACCCCAACAATGTGCTGCTGGCTGCCGGCTCCTGTGACTTCAAGTGTGCGATCTTTTCAGCCTACATCA  
AGGAGGTGGAGGAACGGCCGGCACCCACCCGTTGGGGCTCCAAGATGCCCTTTGGGGAACTGATGTTTGAATCCA  
GCAGTAGCTGCGGCTGGGTACATGGCGTCTGTTTCTCAGCCAGCGGGAGCCGCGTGGCCTGGGTAAGCCACGACA  
GCACCGTCTGCCTGGCTGATGCCGACAAGAAGATGGCCGTCGCGACTCTGGCCTCTGAAACACTACCACTGCTGG  
CGCTGACCTTCATCACAGACAACAGCCTGGTGGCAGCGGGCCACGACTGCTTCCCGGTGCTGTTTACCTATGACG  
CCGCCGCGGGGATGCTGAGCTTCGGCGGGCGGGCTGGACGTTTCTAAGCAGAGCTCGCAGCGTGGCTTGACGGCCC  
GCGAGCGCTTCCAGAACCTGGACAAGAAGGCGAGCTCCGAGGGTGGCACGGCTGCGGGCGCGGGCCTAGACTCGC  
TGACAAGAACAGCGTCAGCCAGATCTCGGTGCTCAGCGGCGGCAAGGCCAAGTGTCTGCAGTTCTGCACCACTG  
GCATGGATGGCGGCATGAGTATCTGGGATGTGAAGAGCTTGGAGTCAGCCTTGAAGGACCTCAAGATCAAATTGAC  
CTGTGAGGAATATGTTGCCTTCATCCTAACTGCTGGGGAAGCGGGGAGAGGGGTCAGGGAGGCTAATGGTTGCTT  
TGCTGAATGTTTCTGGGGTACCAATACGAGTTCCCATAGGGGCTGCTCCCTCAAAAAGGGAGGGGACAGATGGGG  
AGCTTTTCTTACCTATTCAAGGAATACGTGCCTTTTTCTTAAATGCTTTCATTTATTGAAAAAAAAAAAAAAAAAA  
AAA

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**FIGURE 2349**

MAYHSFLVEPISCHAWNKDRTQIAICPNNHEVHIYEKSGAKWTKVHELKEHNGQVTGIDWAPESNRIVTCGTDRN  
AYVWTLKGRTWKPTLVILRINRAARCVRWAPNENKFAVGSGSRVISICYFEQENDWWVCKHIKKPIRSTVLSLDW  
HPNNVLLAAGSCDFKCRIFSAYIKEVEERPAPTPWGSKMPPGELMFESSSSCGWVHGVCFSASGSRVAWVSHDST  
VCLADADKKMAVATLASETLPLLALTFTDNLVAAGHDCFPVLFTYDAAAGMLSFGGRLDVPKQSSQRGLTARE  
RFQNLDDKKASSEGGTAAGAGLDSLHKNSVSQISVLSGGKAKCSQFCTTGMDGGMSIWDVKSLESALKDLKIK

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**FIGURE 2350**

CAGCTTTCTCTCCTTTGAAAACACTAAGAATAATGTCACTGCATCAGTTTTTACTAGAGCCAATCACCTGTCATG  
CCTGGAACAGGGATCGTACTCAGATTGCCCTCAGTCCCAATAATCACGAAGTGCACATCTATAAGAAGAACGGGA  
GCCAGTGGGTGAAAGCTCATGAACTCAAGGAGCACAACGGACACATCACAGGTATTGACTGGGCTCCCAAGAGCG  
ACCGCATTGTCACTTGTGGGGCAGACCGCAATGCCTATGTCTGGAGTCAGAAAGATGGTGTGTTGGAAGCCAACCC  
TGGTGATCCTGAGAATTAATCGCGCAGCTACTTTTGTGAAGTGGTCCCCCTAGAGAACAAATTTGCTGTGGGAA  
GTGGAGCACGACTCATTCTGTTTGTACTTTGAGTCTGAAAATGACTGGTGGGTGAGCAAGCACATTAAAAAGC  
CGATTGCTCCACAGTCCTCAGCTTGGATTGGCATCCCAACAACGTTTTGCTGGCAGCAGGATCATGTGACTTCA  
AATGCAGAGTGTCTTCTGCCTACATTAAAGAAGTGGATGAAAAGCCAGCCAGCACGCCCTGGGGCAGCAAGATGC  
CTTTTGGGCAGCTGATGTGAGAGTTTGGTGGCAGTGGCACTGGTGGCTGGGTCCACGGGGTAAGCTTCTCTGCCA  
GTGGGAGCCGCCTGGCCTGGGTGAGCCACGACAGCACCGTGTCTGTTGCTGATGCCTCAAAAAGTGTGCAGGTCT  
CGACTCTGAAGACAGAGTTCTGCGCTCCTAAGTGTGTCATTTGTCTCAGAGAACAGCGTCGTGGCTGCTGGCC  
ATGACTGCTGCCCAATGCTCTTTAACTACGATGACCGCGGCTGCCTGACCTTCGTCTCCAAGTTAGATATTCCAA  
AACAGAGCATCCAACGCAACATGTCTGCCATGGAACGCTTCCGCAACATGGACAAGAGAGCCACAACCTGAGGACC  
GCAACACGGCCTTGGAGACGCTGCACCAGAAATAGCATCACTCAAGTCTCTATTTATGAGGTGGACAAGCAAGATT  
GTCGCAAATTTTGCACTACTGGCATCGATGGAGCCATGACAATTTGGGATTTCAAGACCCCTCGAGTCTTCCATCC  
AGGGCCTCCGGATAATGTGAAGCTGAGTG

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**FIGURE 2351A**

CTCCTCTGCTCCTCGAAGAAGGCCAGGGCGGGCGCTGCCGCAAGTTTTGACATTTTCGCAGCGGAGACGCGCGCGG  
GCACTCTCGGGCCGACGGCTGCGGCGGGCGGCCACCCCTCCAGAGCCCCTTAGTCGCGCCCCGGCCCTCCCGCTGC  
CCGGAGTCCGGCGGCCACGAGGCCAGCCGCTCCTCCCGCGCTTGCTCGCCCGGCGGCCGAGCCATGTCCCGG  
GGGCCCAGAGAGGTGAACCGGCTCACGGAGAGCACCTACCGGAATGTTATGGAACAGTTCAATCCTGGGCTGCGA  
AATTTAATAAACCTGGGGAAAAATTATGAGAAAGCTGTAAACGCTATGATCCTGGCAGGAAAAGCCTACTACGAT  
GGAGTGGCCAAGATCGGTGAGATTGCCACTGGGTCCCCCGTGTCAACTGAACTGGGACATGTCTCATAGAGATT  
TCAAGTACCCACAAGAACTCAACGAGAGTCTTGATGAAAATTTTAAAAAATTCACAAAGAGATTATCCATGAG  
CTGGAGAAGAAGATAGAATTGACGTGAAATATATGAACGCAACTCTAAAAAGATAACAAACAGAACACAAGAAT  
AAATTAGAGTCTTTGGAGAAATCCCAAGCTGAGTTGAAGAAGATCAGAAGGAAAAGCCAAGGAAGCCGAAACGCA  
CTCAAATATGAACACAAAGAAATTGAGTATGTGGAGACCGTTACTTCTCGTCAGAGTGAAATCCAGAAATTCATT  
GCAGATGGTTGCAAGAGGGCTCTGCTTGAAGAGAAGAGGCGCTTCTGCTTTCTGGTTGATAAGCACTGTGGCTTT  
GCAACCACATACATTATTATCACTTACAGTCTGCAGAACTACTGAATTCCAAGCTGCCTCGGTGGCAGGAGACC  
TGTGTTGATGCCATCAAAGTGCCAGAGAAAATCATGAATATGATCGAAGAAATAAAGACCCCGAGCTCTACCCCC  
GTGTCTGGAACCTCTCAGGCTTACCCATGATCGAGAGAAGCAATGTGGTTAGGAAAGATTACGACACCCCTTTCT  
AAATGCTCACCAAGATGCCCCCGCTCCTTCAGGCAGAGCATATACCAGTCCCTTGATCGATATGTTTAATAAC  
CCAGCCACGGCTGCCCCGAATTCACAAAGGGTAAATAATTCAACAGGTACTTCCGAAGATCCAGTTTACAGCGA  
TCAGTTTCGGTTGCAACGGGACTGAACATGATGAAGAAGCAGAAAGTGAAGACCATCTTCCCGCACACTGCGGGC  
TCCAACAAGACCTTACTCAGCTTTGCACAGGGAGATGTCATCAGCTGCTCATCCCCGAGGAGAAGGATGGCTGG  
CTCTATGGAGAACACGACGTGTCCAAGGCGAGGGGTTGGTTCCCGTCGTCGTACACGAAGTTGCTGGAAGAAAAT  
GAGACAGAAGCAGTGACCGTGCCACGCCAAGCCCCACACCAGTGAGAAGCATCAGCACCGTGAACCTGTCTGAG  
AATAGCAGTGTGTTCATCCCCCACCAGCTACTTGGAATGCTTGTCCATGGGGGCAGCTGCCGACAGGAGAGCA  
GATTCGGCCAGGACGACATCCACCTTTAAGGCCCCAGCGTCCAAGCCCCGAGACCGCGGCTCCTAACGATGCCAAC  
GGGACTGCAAAGCCGCTTTTCTCAGCGGAGAAAACCCCTTTGCCACTGTGAACTCCGCCCCGACTGTGACGAAT  
GATCGCTCGGCACCCATCATTCGATGAGAGGACAGCCAAGGACTCTCCCGGGCTCTCCGGTTCTCCCTTGCGGA  
ATGATGGGCGCATCTGTCTGCCACGTGCTGACGGTCGGGAAGCTTCAGTGGAGAGGCCTAACTCTAATGTGCGC  
TGCTTAAGCAAATCATGCTTCTCTGTTTACGTAGTTGGGTTGACAAGTTTCTGCCTTTAAGATAAATGAGTAAT  
AGTCTAATGACCAGCTCAGCCATTTAAATATTTTCTTCTTATTCTGTTCAAGAAACAGTAACTTGGTTTCAAT  
CTTTACTGTATTTTTTAAATGAATTTTTTCTTAATAACAGCCAGAATAAGGGATAGTCTATGCTTTCAGGACTG  
GCTTCTGCACCTGATATGAATGAGACCAGTTTTATTTTATAAAGCATGTGCTCTTAATAGCATTATGTCTAAAG  
AAGATATCACGTAAGTTTGCATCTTAGCATGCAAATCATAATTTTAAGCAATATAAATTATGAAAATACTATATA  
AATGTAATTTAACTTAAATGTTTAAGTGTAGAGCTTCCAGAGATGGAGAAACCCCAACCTCCCTCCAACCACG  
CCAGAGCTGTAGAGTGCTAAGACGCTTTGCGCTGCCCTTATCACAGCCACACGTAGCACTCGACGAAATCTCCTCC  
GAGAGCTCCTTTTCTTGGTAGTTAGGAGTCGCCAACGGATTCGCTGCACACGGCCCATCCAGGACACAGGCCTGG  
GCGTCGGAGTCACGGCTCCTTGTGTTCTCACTCAGCTAGTTGGCCAAAGCTGCATCCATTACCAGTACACTCAAA  
CTGCTCGGGTCTTGTTTTCTCCGTGTTTGAATCAGGTACAGACTCTCAAAGGATACGTGTAAAGCCAGGATGAC  
CTCTGGTGCCTGGAGAAGGGCGGGTTTTTCAGCCTAGCAGCCATGATGCCCTCGGAACCTGGCCCTATGGTATGG  
ATGTGAGGACTACGCACTGGCTGCCCTGAGCCCCGGGGCTGGAAATCATCTTTGGCTGCCAAGGATCTGGACCTAT  
TTTGGAGTGGAGAGTCATGGTTAAAATTCCCAGCCCCGGCCAGGTACGGGAATCCCAGCATTTTGTGAGGCCGAG  
GCAGGGGGATCACCTGAGGTGAGGAGTCTCTACTAAAAATACAAAAATTAGACAGGTGTGGTGGTGGGCGCCACT  
CAGGAGGCTGAGGCAGGAGAATCACTTGAACCCGGGAGGCAGAGGTTGCAGTGAGCCAGATCATGCTGCTGCACT  
CCAGCCCCGGCGCTCACCCTGTGTGTTGCTGGGTGCTGGGGCTGTGACTTATCCCTCTCCTTTAGCCTTGCCAT  
AAGTGTAGTATCCTATGAGGCTGAGATTGGGAAAGGTTACATGCAGGTAAGCCAGTGGACGTGGCCGATGCTTCA  
GGCTCCTTCCAGCCAGGTCCAGCAGTGTTACCATCTGCTTCTCCTGGGAGGACAAACCAGGCACCCCCACCATGA  
AGGGGCTGCAGGCACCATGAATATGTTAACAACCCCACTGTGACTACAGAAAGGGCTGCAGCCACATGAGAAT  
TCAGTCCACACAAGCCCCATGGCCGTGTTCCCCACTTCAGCCACAGGGCTCAGGGAGCCCCATCTGGCGCTAAGG  
GGAAGTGTGGGGTGTGGGTGACACCTGGCCTTTGGCGTTCTGCCTTGGGGAGGTTTCTGGTTTTGTACGGGGT  
GGAAGAATAGGACCTGGGGTCTCGGATGCAACCTGCAGACCCCGTGGCTCACCAACCCAGGTTCTGCCTCCC  
AGACCAGAACGGGCATGGCCTGGTCCTTGGCACCGAGGTGCCTGCTGTAAATATCAAGGGATTACAACTTAA

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**FIGURE 2351B**

TAATAAAGCAGAACTTG



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**FIGURE 2352**

GGCGGTTGGCAAGAACAAGCGCCTTACGAAAGGCGGCAAAAAGGGAGCCAAGAAGAAAGTGGTTGATCCATTTTC  
TAAGAAAGATTGGTATGATGTGAAAGCACCTGCTATGTTTCAGTATAAGAAATATTGGAAAGACGCTCGTCACCAG  
GACCCAAGGAACCAAAATTGCATCTGATGGTCTCAAGGGTCGTGTGTTTGAAGTGAGTCTTGCTGATTTGCAGAA  
TGATGAAGTTGCATTTAGAAAATTCAGGCTGATTACTCTTCGTCTGTTCTGTGTTGGTTTTACTAAAAACGCAA  
CAATCAGATACGGAAGACCTCTTATGCTCAGCACCAACAGGTCCGCCAAATCCGGAAGAAGATGATCGAAATCAT  
GACCCGAGAGGTGCAGACAAATGACTTGAAAGAAGTGGTCAATAAATTGATTCCAGACAGCATTGGAAAAGACAT  
AGAAAAGGCTTGCCAGTCTATTTATCCTCTCCATGATGCTTCGTTAGAAAAGTAAAAATGCTGAAGAAGCCCAA  
GTTTGAATTGGGAAAGCTCATGGAGCTTCATGGTGAAGGCAGTAGTTCTGGAAAAGCCACTGGGGACGAGACAGG  
TGCTAAAGTTGAACGAGCTGATGGATATGAACCACCAGTCCAAGAATCTGTTTAAAGTTCAGACTTCAAATAGTG  
GCAAATAAGAGTGCTATTTGTGAAAAAAAAAACAAAAAAAAA

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**FIGURE 2353A**

CGCAGTGCTGCTGGGGCATTGCCTGTGACAACCAGGTCTACGTGTATGTGTGTGCCAGCGATGTCCCCATCCGCC  
GCCGAGAGGAGGCCTATGAGAATCAGCGCTGGAATCCCATGGGCGGCTTCTGTGAGAAGCTCCTGCTGAGTGACC  
GCTGGGGGTGGAGTGACGTGAGTGGGCTCCAGCACCGGCCGCTGGACAGGGTGGCACTGCCCTCGCCGCACTGGG  
AGTGGGAGTCTGACTGGTACGTGGATGAGAATTTTGGAGGTGAACCCACTGAGAAAGGGGGGTGGACGTACGCCA  
TCGACTTTCCCGCCACCTACACGAAAGACAAGAAGTGAATTTCTGTGTGCGGCGCCGGAAGTGGATCCGGTACA  
GGAGATAACAAGTCCCGGGACATCTGGGCCAAGATCCCCTCGAAGGATGACCCCAAGGAGCTGCCCGACCCCTTCA  
ACGACCTCTCTGTAGGGGGCTGGGAGATCACGGAGGAGCCTGTGGGCCGCCTGTGAGTGTGGCTGTGTCTCTGC  
AGGGCAAGGTGTGGTACAGAGAGGACGTGAGCCACTCCAACCCCGAAGGGTCCTCCTGGTCCCTGCTGGACACCC  
CCGGGGAGGTGGTTTCAATCAGCTGTGGGCCCCACGACCTCCTGTGGGCCACACTCTGGGAGGGACAGGCCCTGG  
TCCGGGAAGGAATCAACAGGAGCAATCCCAAAGGAAGTTTCTGGTCCATCGTGGAGCCTCCTGGATCTGAAAACG  
GGGTCAATGCACATCTCGGTGGGAGTCAGCGTGGTCTGGGCTGTACCAAGGACTGGAAGGTGTGGTTCCGAAGAG  
GCGTCAACTCTCAATCCCTGCGGCACCAAGTTGGATTGAGATGGTTGGTGGATGACGATGGTGAACGTGGGAA  
TGAACGACCAGGTGTGGGGCATTGGCTGTGAGGACCGAGCCGTGTAATTCGGCAGGGTGTACCCCCAGCGAGC  
TCAGTGGGAAGACCTGGAAAGCCATCATCGCGGCCGAGAGTGTGACCGGTGACACTCTGGCAGCTCGTCTAGTC  
TCCTCAGTGCCGGCTGCTTCTTCGGTGATGAGGTGAGGGGTAGTGGCGAGTCTGCCCCAGCGACACCGATGCCT  
CCTCGGAAGTGCAGAGACCAGGGCCTGGCCAGATTCTCCCTGCAGAACCTCTAGACGATTCCAAGAATGCCACAG  
GGAATCAGCCTCAGGCCTGGGGGCTGGCAGGACCGCAGAAGATAACCGTGAAGATGCCTGCCAGCCGAGGGCA  
GCAGGGAGGCCAGACCCAACACGCACCCCGGCCGGCCCCACCCCGGCCGAGCTGCCCTGGACCAATATTGACC  
TCAAGGAGGCCAAGAAAGTGGCCAGCCACTCGGCCGTGGCTTCCCCGAGACCACAGCCTCTCCTCTCTGGGGC  
TCCTCCCACTGGGCTTGGAGGAGCCGTATGGGGTGGATGACCACCGCTGTGGGCCTGGGTGTGGGAGGCGGCT  
GCGTGGTGGAGGCATGTGCCATGCCAGATGGTTCACTGTCCAGGCGGGCCTGTCTCCTCGGTACACATGCTGT  
CCCTGTCCATCAGCCGGCCCCAGACCGCTGCCTGGAGGAAGCAGATCTTCCAGCAGCTCACGGAAGGACCAAGC  
GGGAGCTGGAGAATTCAGACACTACGAGCAGGCCGTGGAGCAGTGGTGTGGGTGAAGACCGGGGCGCTGCAGT  
GGTGGTGGCAGTGAAGCCCCACAAGTGGGTGGACGTGCGCTTGGCCCTGGAGCAGTTACGGGGCACGACGGCG  
TCCGGGACAGCATCTCTTCACTACTATGTGGTCCACGAGGAGAAGAAGTACATCCACATATTCTGAATGAGG  
TGGTGGCGCTGGTCCAGTGCTGAACGAGACCAAGCACTCCTTTGCCCTGTACACCCCTGAGCGGACACGGCAGA  
GGTGGCCGGTGGCTGTGGCTGCTGCCACCGAGCAGGACATGAATGACTGGCTCGCCCTGCTCAGCCTGTCTTGCT  
GCGAGAGCCGGAAGGTGCAGGGCCGCCCCGTCCCCGAGGCCATCTGGTCCATCACCTGCAAGGGGGACATCTTCG  
TGAGCGAGCCCAGCCAGACCTGGAGGGCCACGAGCACCCCTGCCCTGCGACCAGATGTTTTGGCGGCAGATGG  
GAGGCCACCTGCGGATGGTGGAGGCCAACAGCCGGGGCGTGGTGTGGGGCATCGGCTATGACCACACGGCCTGGG  
TATACACAGGCGGCTATGGAGGCGGCTGCTTCCAAGGCCCTGGCCAGCAGCACCAGTAACATCTACACGCAGTCAG  
ACGTGAAGTGTGTTACATCTATGAGAACCAGCGCTGGAACCCCGTACAGGCTACACCAGCAGGGGTCTGCCCA  
CGGACCGGTACATGTGGAGCGATGCCTCGGGGCTGCAGGAGTGCACGAAGGCTGGCACGAAGCCCCCGTCCCTGC  
AGTGGGCTGGGTTTCCGACTGGTTCTGTGATTTCAGCGTTCCGGGGGGCACGGACCAGGAGGGGTGGCAGTATG  
CCAGCGACTTCCCTGCCTCATAACCATGGGTCCAAAACGATGAAGGATTTTGTGAGGAGGAGGTGCTGGGCCAGAA  
AATGCAAGCTGGTGACCAAGTGGGCCCTGGCTGGAGGTGCCCCCATCGCCCTCAGGGACGTGTCCATCATCCCGG  
AGAGCCCCGGGTGCCGAGGGGAGTGGGCACAGCATCGCCCTCTGGGCCGTACGCGACAAGGGGGATGTGCTGTGCC  
GCCTGGGCGTGTGCGAGCTCAACCTGCGGGCTCCTCCTGGCTGCACGTTGGCACCGACAGCCCTTCGCCTCCA  
TCTCCATCGGGGCTGCTACCAGGTGTGGGCCGTGGCAAGGGACGGCTCCGCCTTCTACCGGGGATCCGTGTACC  
CCTCGCAGCCAGCCGGTACTGCTGGTACCACATCCCGTCCCCACCGAGACAGAGGCTGAAGCAGGTGTCCGCGG  
GGCAGACGTGGTGTATGCCCTGGATGAGAATGGAACCTGTGGTATCGCCAAGGGATCACGCCCAGCTACCCGC  
AGGGCTCCAGCTGGGAGCACGTGTCCAACAACGTGTGCCGAGTGTCCGTGGGGCCCCCTGGACCAGGTCTGGGTGA  
TCGCCAACAAAGTGCAGGGCAGCCACAGCCTGAGCCGGGGGACAGTGTGTATCGCACCGGCGTGCAGCCTCACG  
AGCCCAAGGGCCACGGCTGGGACTACGGCATCGGGGGAGGCTGGGACCATATCTCTGTCCGGGCCAATGCCACCA  
GGGGCCCCCGGAGCTCGTCCCAGGAGCAGGAGCCGAGTGCCCCACCAGAGGGCCATGGCCCCGTCTGCTGCTGAG  
GCCCCCCCCACACCTACATGCAGGGACGGTGGCCAGTTTGGGGGATCAAGGCTGAGCCATTCTTGTGCTGGAGT  
GTGCACCGTGGGAGCAATGTGGCCCAGGTGGACTCAGGAGGGAACCTGGCCCCAAGGCTGCGGCCACTTCAGAGG  
CACTGGCTGAGACGGCCCTGAAATGTGAAGCTCCGCGGACACTCCACACAGTGTCCCGCTGTGCGAGGAGTCCCCG

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**FIGURE 2353B**

GGGTGTGGGGCATGGGGTGGGGCTGCACCTCCCAGAGGCCCTCCCACCCTTCCCTTCCCCCTCTCCCTTCTGCCT  
TTCCAGGACTAGAACCGGGAACCTGGAGCCCTCCGGGAACGCCGGCCCTGGGGCAGCAGAGCCAGGATGGAGCCC  
TCCTGAGCTGGCATCTCAGACAGCACCCGGGCCCCGCCACCCTCACCAAGAGAGATGGCCATGGGGCTCAGGGCC  
TCTTTACCATGTGCAGTGACCATTCTCAGAGCAGGACTTGCAAAGAGGCTTTAATTTCAAAAGTGAAGGAAGGA  
GGCCAGGCGCCGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGGGCAGATCACCTAGGTCAAGA  
GTTTCAAACCAGACGGGCCAACATGGTGAACCCCATCTCTGCTAAAAATACAAAAAAAAAAAAATTAGCTGGGC  
ATGGTGTTGGGTGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCGTTTGAACCCGGGAGGCGGAG  
GCTGCAGTGAGCCGAGATCATGCCACTGCACTCCAGCCTGGGCGACAGAGACTCCATCTC

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**FIGURE 2354**

MGWGCTSQRLPPFFPSPLPSAFPGLEPGTWSPPGTPALGQQSQDGALLSWHLRQHPGPPPLTKRDGHGAQGLFTM  
CSDHFSEQDLQRGFNFKSEGRRPGAVAHACNPSTLGG

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**FIGURE 2355**

AAACTTCCCGCACGCGTTACAGGAGCCAGGTCGGTATAAGCGCCAGCGGCCTCGCCGCCCCTCAAGCTGTCCACA  
TCCCTGGCCTCAGCCCGCCACATCACCTGACCTGCTTACGCCCAGATTTTCTTCAATCACATCTGAATAAATCA  
CTTGAAGAAAGCTTATAGCTTCATTGCACCATGCTGTGGCATTGTTGGGCGCTGTTTGGCAGTGATGATTGCCTTTCT  
GTTCAAGTGTCTGAGTGCTATGAAGATTGCACACAGAGGTCCAGATGCATTCCGTTTTGAGAATGTCAATGGATAC  
ACCAACTGCTGCTTTGGATTTCACCGGTTGGCGGTAGTTGACCCGCTGTTTGGAAATGCAGCCAATTCGAGTGAAG  
AAATATCCGTATTTGTGGCTCTGTTACAATGGTGAAATCTACAACCATAAGAAGATGCAACAGCATTTTGAATTT  
GAATACCAGACCAAAGTGGATGGTGAGATAATCCTTCATCTTTATGACAAAGGAGGAATTGAGCAAACAATTTGT  
ATGTTGGATGGTGTGTTTGCAATTTGTTTTACTGGATACTGCCAATAAGAAAGTGTTCTGGGTAGAGATACATAT  
GGAGTCAGACCTTTGTTTAAAGCAATGACAGAAGATGGATTTTTGGCTGTATGTTTCAAGCTAAAGGTCTTGTT  
ACATTGAAGCACTCCGCGACTCCCTTTTTTAAAGTGGAGCCTTTTCTTCTGGACACTATGAAGTTTTGGATTTA  
AAGCCAAATGGCAAAGTTGCATCCGTGGAAATGGTTAAATATCATCACTGTCTGGGATGAACCCCTGCACGCCCTC  
TATGACAAATGTGGAGAACTCTTTCAGGTTTTGAGATAGAACTGTGAAGAACAACCTCAGGATCCTTTTTAAT  
AATGCTGTAAAGAAACGTTTGATGACAGACAGAAGGATTGGCTGCCTTTTATCAGGGGGCTTGGACTCCAGCTTG  
GTTGCTGCCACTCTGTTGAAGCAGCTGAAAGAAGCCCAAGTACAGTATCCTCTCCAGACATTTGCAATTGGCATG  
GAAGACAGCCCCGATTTACTGGCTGCTAGAAAGGTGGCAGATCATATTGGAAGTGAACATTATGAAGTCCTTTTT  
AACTCTGAGGAAGGCATTAGGCTCTGGATGAAGTCATATTTCTTGGAACTTATGACATTACAACAGTTCGT  
GCTTCAGTAGGTATGTATTTAATTTCCAAGTATATTCGGAAGAACACAGATAGCGTGGTGATCTTCTCTGGAGAA  
GGATCAGATGAACCTACGCAGGGTTACATATATTTTACAAGGCTCCTTCTCCTGAAAAAGCCGAGGAGGAGAGT  
GAGAGGCTTCTGAGGGAACCTATTTGTTTGATGTTCTCCGCGCAGATCGAACTACTGCTGCCCATGGTCTTGAA  
CTGAGAGTCCCATTTCTAGATCATCGATTTTCTTCTTACTTGTCTCTGCCACCAGAAATGAGAATTCCAAAG  
AATGGGATAGAAAAACATCTCCTGAGAGAGACGTTTGAGGATTCCAATCTGATACCCAAAGAGATTCTCTGGCGA  
CCAAAAGAAGCCTTCAGTGATGGAATAACTTCAGTTAAGAATTCTGGTTTAAAGATTTTACAGGAATACGTTGAA  
CATCAGGTTGATGATGCAATGATGGCAAATGCAGCCCAGAAATTTCCCTTCAATACTCCTAAAACCAAAGAAGGA  
TATTACTACCGTCAAGTCTTTGAACGCCATTACCCAGGCCGGGCTGACTGGCTGAGCCATTACTGGATGCCCAAG  
TGGATCAATGCCACTGACCCTTCTGCCCGCACGCTGACCCACTACAAGTCAGCTGTCAAAGCTTAGGTTGGTCTTT  
ATGCTGTAATGTGAAAGCAAATATTTCTTCGTGTTGGATGGGGACTGTGGGTAGATAGGGGAACAATGAGAGTCA  
ACTCAGGCTAACTTGGGTGTGAAAAAATAAAAGTCCTAAATCT

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**FIGURE 2356**

MCGIWALFGSDDCLSVQCLSAMKIAHRGPDAFRFENVNGYTNCCFGFHLAVVDPLFGMQPIRVKKYPYLWLCYN  
GEIYNHKKMQQHFEFEYQTKVDGEIILHLYDKGGIEQTICMLDGVFAFVLLDTANKKVFLGRDITYGVRPLFKAMT  
EDGFLAVCSEAKGLVTLKHSATPFLKVEPFLPGHYEVLDPNGKVASVEMVKYHHRDEPLHALYDNVEKLFPG  
FEIETVKNNLRILFNNAVKKRLMTDRRIGCLLSGGLDSSIVAATLLKQLKEAQVQYPLQTFAIGMEDSPDLLAAR  
KVADHIGSEHYEVLFNSEEGIQALDEVIFSLETYDITTVRASVGMYLISKYIRKNTDSVVIFSSEGSDELTOGYI  
YFHKAPSPEKAEESERLLRELYLFDVLRADRTTAAHGLELRVPFLDHRFSSYYLSLPPEMRIPKNGIEKHLRE  
TFEDSNLIPKEILWRPKEAFSDGITSVKNSWFKILQEYVEHQVDDAMMANAAQKFPFNTPKTKEGYYYRQVFERH  
YPGRADWLSHYWMPKWINATDPSARTLTHYKSAVKA

**FIGURE 2357**

CCTTTCTGTCTCTGGTTCCCTGAAGCATCGAGAGGAAACCGCGCGCGGAGCCGCGGAGAGGCA  
GCGGCAGTTTGTAGCCCTGTAAATGTTATATGTGTACTTTTTTTTACTATGTGGCGTCGAAGCCTGTGGACATTT  
TCGCGGTCCGGGTCCCTGCGGCGGACGGGTGCGATCGTGCTCGTGGCCAGGGCGCAGTCAGAGTGTGCGGTGGTCC  
TGATCTAGGAAGAGACTGCGGCCTTATCACCGTCTCGGTGTC'TGCTTTCACCTTCAACTGCCCCCTCCTCACCT  
GGACCGCTCACCTCCTCCTCCCTCTCACCCGCCATCCCCACCAGTCCCCACCTGTCTCTGTAGACTGCAAGA  
CTCATCAAGTGACTTGCTGAGCAAACCCTGCCGAGAAGAGATTTTCTTCAATCACATCTGAATAAATCACTTGAA  
GAAAGCTTATAGCTTCATTGCACCATGTGTGGCATTGTTGGCGCTGTTTGGCAGTGATGATTGCCTTTCTGTTTCAG  
TGTCTGAGTGCTATGAAGATTGCACACAGAGGTCCAGATGCATTCCGTTTTGAGAATGTCAATGGATACACCAAC  
TGCTGCTTTGGATTTCACCGGTTGGCGGTAGTTGACCGCTGTTTGGGAATGCAGCCAATTCGAGTGAAGAAATAT  
CCGTATTTGTGGCTCTGTTTACAATGGTGAAATCTACAACCATAAGAAGATGCAACAGCATTTTGAATTTGAATAC  
CAGACCAAAGTGGATGGTGAGATAATCCTTCATCTTTATGACAAAGGAGGAATTGAGCAAACAATTTGTATGTTG  
GATGGTGTGTTTGCATTTGTTTTACTGGATACTGCCAATAAGAAAGTGTTCTTGGGTAGAGATACATATGGAGTC  
AGACCTTTGTTTAAAGCAATGACAGAAGATGGATTTTGGCTGTATGTTTCTGAGAAGCTAAAGGTCTTGTTACATTG  
AAGCACTCCGCGACTCCCTTTTTTAAAGTGGAGCCTTTTCTTCTGGACACTATGAAGTTTGGATTTAAAGCCA  
AATGGCAAAGTTGCATCCGTGGAAATGGTTAAATATCATCACTGTCGGGATGAACCCCTGCACGCCCTCTATGAC  
AATGTGGAGAAACTCTTTCCAGGTTTTGAGATAGAAACTGTGAAGAACAACTCAGGATCCTTTTTAATAATGCT  
GTAAAGAAACGTTTGATGACAGACAGAAGGATGGCTGCCTTTTATCAGGGGGCTTGGACTCCAGCTTGTTGCT  
GCCACTCTGTTGAAGCAGCTGAAAGAAGCCCAAGTACAGTATCCTCTCCAGACATTTGCAATTGGCATGGAAGAC  
AGCCCCGATTTACTGGCTGCTAGAAAGGTGGCAGATCATATTGGAAGTGAACATTATGAAGTCCTTTTTAACTCT  
GAGGAAGGCATTACAGGCTCTGGATGAAGTCATATTTCTTGGAACTTATGACATTACAACAGTTCGTGCTTCA  
GTAGGTATGATTTAATTTCCAAGTATATTCGGAAGAACACAGATAGCGTGGTGATCTTCTCTGGAGAAGGATCA  
GATGAACTTACGCAGGGTTACATATATTTTACAAGGCTCCTTCTCTTGAAAAAGCCGAGGAGGAGAGTGAGAGG  
CTTCTGAGGGAACCTCTATTTGTTTGATGTTCTCCGCGCAGATCGAACTACTGCTGCCCATGGTCTTGAAC TGAGA  
GTCCCATTTCTAGATCATCGATTTTCTTCTTACTTGTCTCTGCCACCAGAAATGAGAATTCCAAAGAATGGG  
ATAGAAAAACATCTCCTGAGAGAGACGTTTGAGGATTCCAATCTGATACCCAAAGAGATTCTCTGGCGACCAAAA  
GAAGCCTTCAGTGATGGAATAACTTCAGTTAAGAATTCTTGGTTTAAAGATTTTACAGGAATACGTTGAACATCAG  
GTTGATGATGCAATGATGGCAAATGCAGCCCAGAAATTTCCCTTCAATACTCCTAAAACCAAGAAGGATATTAC  
TACCGTCAAGTCTTTGAACGCCATTACCCAGGCCGGGCTGACTGGCTGAGCCATTACTGGATGCCCAAGTGGATC  
AATGCCACTGACCCTTCTGCCCGCACGCTGACCCACTACAAGTCAGCTGTCAAAGCTTAGTGGTCTTTATGCTG  
TAATGTGAAAGCAAATATTTCTTCGTGTTGGATGGGGACTGTGGGTAGATAGGGGAACAATGAGAGTCAACTCAG  
GCTAACTTGGGTGTGAAAAAATAAAAGTCCCTAAATCTAAAAA

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**FIGURE 2358**

MCGIWALFGSDDCLSVQCLSAMKIAHRGPDAFRFENVNGYTNC CFGHRLAVVDPLFGMQPIRVKKYPYLWLCYN  
GEIYNHKKMQQHFEFEYQTKVDGEIILHLYDKGGIEQTICMLDGVFVLLDTANKKVFLGRDTYGVRPLFKAMT  
EDGFLAVCSEAKGLVTLKHSATPFLKVEPFLPGHYEVLDLKPNGKVASVEMVKYHHC RDEPLHALYDNVEKLFPG  
FEIETVKNNLRILFNNAVKKRLMTDRRIGCLLSGGLDSSLVAATLLKQLKEAQVQYPLQTFAIGMEDSPDLLAAR  
KVADHIGSEHYEVLFNSEEGIQALDEVIFSLETYDITTVRASVGMYLISKYIRKNTDSVVIFSGEGSDELTQGYI  
YFHKAPSPEKAEESERLLRELYLFDVLRADRTTAAHGLELRVPFLDHRFSSYYLSLPPEMRIPKNGIEKHLRE  
TFEDSNLIPKEILWRPKEAFSDGITSVKNSWFKILQEYVEHQVDDAMMANAAQKFFNTPKTKEGYYYRQVFERH  
YPGRADWLSHYWMPKWINATDPSARTLTHYKSAVKA



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**FIGURE 2359**

CCTGGCTGGGACGGAAAGTTGCACCACAAGTACAATTAGTTTCAGTTTTGTTTCTTTTCCAGGCACCCAGCAACGG  
CGGCCTCCAGGCCTCAGGCCCCCTCACCATCCTAGAGGTCAAGATCAGCTCTGGCTAGTTCTCAGAGTCTGACC  
CAACAAGTAGCACTGACATTTTTACGTTTGCTGGATGTACACACGGAAGTGGAGGAGGAGGAGGAGAAGGAGGAG  
GGCAGCTCCTTAGCTCAAGAGCAAGTGGCCCCAAGGCCTCAGAAGACTAGAAGGAAGTTCTGGCCATTGAGCATG

GTTTCCCACGGGTCTCGCCCTCCCTCCTGGAGGCCCTGAGCAGCGACTTCTGGCCTGTAAATCTGCCTGGAG  
CAGCTGCGGGCACCCAAGACACTGCCCTGCCTGCATACCTACTGCCAAGACTGCCTGGCACAGCTGGCGGATGGC  
GGCCGCGTCCGCTGCCCCGAGTGCCGCGAGACAGTGCTGTGCCGCCCGAGGGTGTGGCCTCCTTCAAGACCAAC  
TTCTTCGTCAATGGGCTGCTGGACCTGGTGAAGGCCCGGGCCTGTGGAGACCTGCGTGCCGGGAAGCCAGCCTGT  
GCCCTGTGTCCCTGGTGGGTGGCACCAGCACCGGGGGGCCGCCACGGCCCGGTGCCTGGACTGTGCCGATGAC  
TTGTGCCAGGCCTGTGCCGACGGGCACCGCTGCACCCGCCAGACCCACACCCACCGCGTGGTGGACCTGGTGGGC  
TACAGGGCCGGGTGGTATGATGAGGAGGCCCGGGAGCGCCAAGCGGCCAGTGTCCCAGCACCCCGGGGAGGCA  
CTGCGCTTCTGTGCCAGCCCTGCTCACAGTTGCTGTGCAGAGAGTGCCGCTAGACCCCCACCTGGACCACCCC  
TGCTTGCTCTGGCTGAAGCTGTGCGTGCCCGGAGGCCGGCCTGGAGGGACTGCTGGCCGGTGTGGACAATAAC  
CTGGTGGAGCTGGAGGCAGCGCGGAGGGTGGAGAAGGAGGCGCTAGCCCGCTGCGGGAGCAGGCGGCCCGGGT  
GGGACTCAGGTGGAGGAGCGGCTGAGGGCGTCTCCGGGCCCTGCTGGCCAGAAGCAGGAGGTGCTGGGGCAG  
CTACGAGCCACGTGGAGGCTGCCGAAGAAGCTGCTCGGAGAGGCTGGCGAGCTTGAGGGCCGGGAGCAGGTG  
GCCAGGGCCGACCGCCTTCGCCCGCGGGTACTCAGCCTGGGGCGAGAGGCCGAGATCCTCTCCCTGGAAGGG  
GCGATCGCACAGCGGCTCAGGCAGCTGCAGGGCTGCCCTGGGCACCAGGCCCGGCCCTGCCTGCTCCACAG  
CTGGAGCTCCATCCTGGGCTCCTGGACAAGAACTGCCACCTTCTTCGGCTGTCTTTGAGGAGCAGCAGCCCCAG  
AAGGATGGTGGGAAAGACGGAGCTGGTACCCAGGGAGGTGAGGAGAGCCAGAGCCGGAGGGAGGATGAGCCGAAG  
ACTGAGAGACAGGGTGGAGTCCAGCCCCAGGCTGGAGATGGAGCCAGACCCCAAAGAGGAAAAAGCCCAGACA  
ACCCGAGAAGAGGGAGCCAGACCTTGAGGAGGACAGGGCCCAGACACCCACAGAGATGGAGGACCCAGCCC  
CACAGGGGTGGCAGACCCAACAAGAAGAAAAAGTTCAAAGGCAGGCTCAAGTCAATTTCCCGGAGCCAGCCCA  
GCCCTGGGGCCGAATCTGGACGGCTCTGGCCTCCTCCCCAGACCCATCTTTTACTGCAGTTTCCCCACGCGGATG  
CCTGGAGACAAGCGGTCCCCCGGATCACCGGGCTCTGTCCCTTCGGTCCCCGGGAGATCCTGGTGGCGGATGAG  
CAGAACC GGCGACTGAAACGCTTCTCCCTCAACGGCGACTACAAGGGCACCGTGCCGCTCCCTGAGGGCTGCTCC  
CCTTGACGCTGGCCGCCCTGCAGAGCGCGGTGGCCTTCTCCGCTAGCGCACGGCTCTATCTCATCAACCCCAAC  
GGCGAAGTGCAGTGGCGCAGGGCCCTGAGCCTCTCCAGGCCAGCCACGCGGTGGCGGCACTGCCTAGCGGGGAC  
CGCGTGGCTGTGACGCTGGCGGGCCACGTGGAGGTGTACAATATGGAAGGCAGCCTGGCCACCCGGTTTCTCT  
GGAGGCAAGGCCAGCCGGGGCCTGCGGGCGCTGGTGTCTTGACCACAGCCCCAGGGGCATTTCTGTTGGGTGCG  
GACTGGCAGCAGAATAGTGTGGTAATCTGTGATGGGCTGGGCCAGGTGGTTGGGGAGTACAAGGGGCCAGGCCTG  
CATGGCTGCCAGCCGGGCTCCGTGTCTGTGGATAAGAAGGGCTACATCTTTCTGACCCTTCGAGAAGTCAACAAG  
GTGGTGATCCTGGACCCGAAGGGGTCCCTCCTTGAGACTTCTTGACAGCCTACCACGGCCTGGAAAAGCCCCGG  
GTTACCACCATGGTGGATGGCAGGTACCTGGTGTGCTCCCTCAGTAACGGGACCATCCACATCTTTCCGGTCCGT  
TCTCCGGACAGTTAAAGGGGCTAGGACTAGGGTGAGAGGGAGTGGGGAGGGAGAGGGCAGGAAGGAGGCAGAGCT  
GTCCGTGGGAGGTGGAGGCCGAGGACATTTCTGAAAGGGCAGGGGTGGCAACTTTTCAACATGGAGTGCCAAA  
CTGCTAACCCGTCTTCTAGTGTGTGAGAATAGGGACCAAGGTGGTGGCGTGACCTTAACTCTCAGAAGCAGAGGA  
GGCAGGTGGGTGGAGGGGATGCTGGGAGTTACCTGCCTCTTGCTTTTGTGGGTGGCTGCTGCCACCACCGCC  
GCTGCTATATAGTTTAGGTTTCTGAGGTTTGTGAGCCTGTCTTGCTTTTGATTCTTCAAACCATTCCTGATAGA  
GTAGCCGAGGAGAGTCTTGGGGCCAAGAAGGGCCAGGGTGGGTGAGGCGTGTGCACTGTGGAACAGAGCTGAG  
ACCCCGCCCCCTTGACTGGCACAGGGTCTACAGAGTCAGAGGAGGCCTGAGATTTGCAATGGGCAGTGAAT  
GGCTCTTCTGCCAGCCACAGGCAGGATGCTCCTTGATCACGGCATCCCCCGGCGGTAGTACAGGGTGAGCTTGC  
AGGAGGGTCTGCAAGTGCAGACAGCAGCTGGGGCCAAAGAGGTGTTAGGTTCAAAGGCTGCGAAGAGAATAGGCT  
ACTGGAAAACCAAACCAACAGAATTACGTCCAAAAATCCACATTTCTCATCGCTTCTCAGCCTTTTGGCTAAG  
ATTAAGTATTAAAAAAAACCAGGCTCTGCCAGGCGCAGTGCTCATGCCTATAATCCCGGCACTTTGGGAGTCT  
GTGGCAGGAGGATTGCTTGAGGCCAGGAGTTTGGAGACCAGCCTGGGCAACATAGCGAGACCCCATCTCTACAAAA  
GATTAAAAATTAGCTGCGTGTAGTAGCATATGCCTTTCAACGTAGCTACTCAGGAGGCTGAGGTGGGAGGATCCC  
TTGAGCCGAGGAGTTTGGTCTGCAGTGAGCTATGATCGCACCACTGCATTCCAGACCCCATCTCG

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**FIGURE 2360**

MVSHGSSPSLLEALSSDFLACKICLEQLRAPKTLPLCLHTYCQDCLAQLADGGRVRCPECRETVPVPPEGVASFKT  
NFFVNGLLDLVKARACGDLRAGKPACALCPLVGGTSTGGPATARCLDCADDLCQACADGHRCTRQTHTHRVDLV  
GYRAGWYDEEARERQAAQCPQHPGEALRFLCQPCSQLLCRECRLDPHLDHPCLPLAEAVRARRPGLEGLLAGVDN  
NLVELEAARRVEKEALARLREQAARVGTQVEEAAEGVLRALLAQKQEVLGQLRAHVEAAEEAARERLAELEGREQ  
VARAAAFARRVLSLGREAEILSLEGAIAQRLRQLQGCPWAPGPAPCLLPQLELHPGLLDKNCHLLRLSFEEQQP  
QKDGGKDAGTQGGEESSSRREDEPKTERQGGVQPQAGDGAQTPKEEKAQTTREEGAQTTLEEDRAQTPHEDGGPQ  
PHRGGRPNKKKKFKGRLKISREPSPALGPNLDGSGLLPRPIFYCSFPTRMPGDKRSPRITGLCPFGPREILVAD  
EQNRALKRFSLNGDYKGTVPVPPEGCSPCSVAALQSAVAFSASARLYLINPNGEVQWRRALSLSQASHAVAALPSG  
DRVAVSVAGHVEVYNMEGSLATRFIPGGKASRGLRALVFLTTSPQGHFVGSDWQQNSVVICDGLGQVVGEYKGPG  
LHGCQPGSVSDKKGYIFLTLREVNKVVILDPKGSLLGDFLTAYHGLEKPRVTTMVDGRYLVVSLSNGTIHIFRV  
RSPDS

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**FIGURE 2361**

GAATTCTGCAGCTCAGCAGCCGCCGAGCAGGACGAACCGCCAATCGCAAGGCACCTCTGAGAACTTCAGG  
ATGCAGATGTCTCCAGCCCTCACCTGCCTAGTCCTGGGCCTGGCCCTTGCTTTTGGTGAAGGGTCTGCTGTGCAC  
CATCCCCATCCTACGTGGCCACCTGGCCTCAGACTTCGGGGTGAGGGTGTTTCAGCAGGTGGCGCAGGCCTCC  
AAGGACCGCAACGTGGTTTTCTCACCTATGGGGTGCCCTCGGTGTTGGCCATGCTCCAGCTGACAACAGGAGGA  
GAAACCCAGCAGCAGATTCAAGCAGCTATGGGATTCAAGATTGATGACAAGGGCATGGCCCCCGCCCTCCGGCAT  
CTGTACAAGGAGCTCATGGGGCCATGGAACAAGGATGAGATCAGCACCACAGACGCGATCTTCGTCCAGCGGGAT  
CTGAAGCTGGTCCAGGGCTTCATGCCCCACTTCTTCAGGCTGTTCCGGAGCACGGTCAAGCAAGTGGACTTTTCA  
GAGGTGGAGAGAGCCAGATTATCATCAATGACTGGGTGAAGACACACAAAAGGTATGATCAGCAACTTGCTT  
GGGAAAGGAGCCGTGGACCAGCTGACACGGCTGGTGCTGGTGAATGCCCTCTACTTCAACGGCCAGTGGAAGACT  
CCCTTCCCCGACTCCAGCACCCACCGCCGCTCTTCCACAAATCAGACGGCAGCACTGTCTCTGTGCCCATGATG  
GCTCAGACCAACAAGTTCAACTATACTGAGTTTACCACGCCCCGATGGCCATTACTACGACATCCTGGAAGTCCCC  
TACCACGGGGACACCCCTCAGCATGTTTATTGCTGCCCTTATGAAAAAGAGGTGCCTCTCTGTGCCCTCACCAAC  
ATTCTGAGTGCCAGCTCATCAGCCACTGGAAGGCAACATGACCAGGCTGCCCCGCTCCTGGTTCTGCCCAAG  
TTCTCCCTGGAGACTGAAGTCGACCTCAGGAAGCCCCCTAGAGAACCTGGGAATGACCGACATGTTTACAGACAGTTT  
CAGGCTGACTTTCAGAGTCTTTCAGACCAAGAGCCTCTCCACGTCGCGCAGGCGCTGCAGAAAGTGAAGATCGAG  
GTGAACGAGAGTGGCAGGGTGGCCTCCTCATCCACAGCTGTCATAGTCTCAGCCCGCATGGCCCCCGAGGAGATC  
ATCATGGACAGACCCTTCTCTTTGTGGTCCGGCACAACCCACAGGAACAGTCCTTTTTCATGGGCCAAGTGATG  
GAACCCTGACCCCTGGGGAAAGACGCCTTCATCTGGGACAAAACCTGGAGATGCATCGGGAAAGAAGAACTCCGAA  
GAAAAGAATTTTAGTGTTAATGACTCTTTCTGAAGGAAGAGAAGACATTTGCCTTTTGTAAAAGATGGTAAACC  
AGATCTGTCTCCAAGACCTTGGCCTCTCCTTGGAGGACCTTTAGGTCAAACCTCCCTAGTCTCCACCTGAGACCCT  
GGGAGAGAAGTTTGAAGCACAACCTCCCTTAAGGTCTCCAAACCAGACGGTGACGCCTGCGGGACCATCTGGGGCA  
CCTGCTTCCACCCGTCTCTCTGCCACTCGGGTCTGCAGACCTGGTTCCCACTGAGGCCCTTTGCAGGATGGAAC  
TACGGGGCTTACAGGAGCTTTTGTGTGCCTGGTAGAACTATTTCTGTTCCAGTCACATTGCCATCACTCTTGTA  
CTGCCTGCCACCGCGGAGGAGGCTGGTGACAGGCCAAAGGCCAGTGGAAGAAACACCCTTTTCATCTCAGAGTCCA  
CTGTGGCACTGGCCACCCCTCCCCAGTACAGGGGTGCTGCAGGTGGCAGAGTGAATGTCCCCCATCATGTGGCCC  
AACTCTCCTGGCCTGGCCATCTCCCTCCCCAGAAACAGTGTGCATGGGTTATTTTGGAGTGTAGGTGACTTGTTT  
ACTCATTGAAGCAGATTTCTGCTTCCTTTTATTTTATAGGAATAGAGGAAGAAATGTCAGATGCGTGCCAGCT  
CTTACCCCCCAATCTCTTGGTGGGGAGGGGTGTACCTAAATATTTATCATATCCTTGCCCTTGAGTGCTTGTTA  
GAGAGAAAGAGAACTACTAAGGAAAATAATATTATTTAACTCGCTCCTAGTGTTCCTTTGTGGTCTGTGTACC  
GTATCTCAGGAAGTCCAGCCACTTGACTGGCACACACCCCTCCGGACATCCAGCGTGACGGAGCCCACACTGCCA  
CCTTGTGGCCGCTGAGACCCTCGCGCCCCCGCGCCCCCGCGCCCTCTTTTTCCCTTGATGGAATTGACC  
ATACAATTTTCATCCTCCTTCAGGGGATCAAAAGGACGGAGTGGGGGGACAGAGACTCAGATGAGGACAGAGTGGT  
TTCCAATGTGTTCAATAGATTTAGGAGCAGAAATGCAAGGGGCTGCATGACCTACCAGGACAGAACTTTCCCCAA  
TTACAGGGTGACTCACAGCCGATTGGTGACTCACTTCAATGTGTCAATTTCCGGCTGCTGTGTGTGAGCAGTGGA  
CACGTGAGGGGGGGGTGGGTGAGAGAGACAGGCAGCTCGGATTCACTACCTTAGATAATATTTCTGAAAACCTA  
CCAGCCAGAGGGTAGGGCACAAAGATGGATGTAATGCACTTTGGGAGGCCAAGGCGGGAGGATTGCTTGAGCCCA  
GGAGTTCAAGACCAGCCTGGGCAACATACCAAGACCCCGTCTCTTTAAAAATATATATATTTTAAATATACTTA  
AATATATATTTCTAATATCTTTAAATATATATATATTTTAAAGACCAATTTATGGGAGAATTGCACACAGATG  
TGAAATGAATGTAATCTAATAGAAGC

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**FIGURE 2362**

MQMSPALTCLVLGLALVFGECSAVHHPPSYVAHLASDFGVRVFQQVAQASKDRNVVFSFYGVASVLAMLQLTTGG  
ETQQQIQAAAMGFKIDDKGMALRHLYKELMGPWNKDEISTTDAIFVQRDLKLVQGFMPHFFRLEFRSTVKQVDFS  
EVERARFIINDWVKTHTKGMISNLLGKGAVDQLTRLVLVNALYFNGQWKTPFPDSSTHRRLFHKSDGSTVSVPM  
AQTNKFNYTEFTTPDGHYDILELPYHGDTLMSFIAAPYEKEVPLSALTNILSAQLISHWKGNMTRLPRLLVLPK  
FSLETEVDLRKPLENLGMTDMFRQFQADFTSLSDQEPLHVAQALQVKIEVNESGTVASSSTAVIVSARMAPEEI  
IMDRPFLFVVRHNPTGTVLFMGQVMEP

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**FIGURE 2363**

GTGGGACGCGCCGAGCCGGAGGCTGCAGGATGATGCGGTTTCATGCTATTATTTCAGCCGGCAGGGAAAACTGCGGC  
TGCAAAAATGGTACCTGGCCACTTCGGACAAGGAACGGAAGAAGATGGTGCGCGAGCTCATGCAGGTTGTCCTGG  
CTCGAAAGCCCAAGATGTGCAGCTTCCTGGAGTGGAGGGACCTCAAAGTTGTCTATAAGAGATATGCCAGCCTCT  
ACTTCTGCTGCGCCATCGAGGGCCAAGACAATGAGCTCATCACACTGGAGCTGATCCACCGATACGTGGAGCTCT  
TAGACAAATACTTTGGCAGTGTGTGCGAGCTGGACATCATCTTCAACTTTGAGAAGGCCTACTTCATCCTGGATG  
AGTTTTTGATGGGGGGGGATGTCCAGGACACCTCCACTTTCCCCTTTTCCCACTGAAGGTTTTAGAAAGCTAGGAG  
GCAGGAAAATGTGACCCAGATGGGGGTGCTATTTGGCTTTTATTCCTGCCTTTGCAGAACTGATGTCACCCAG  
ATGTCCTTCCCTCCCTAATAACTGTAAATATATAAATATGTCAGGTTAAAGGGAAAAGGTGTTTCAGGGCACTTCT  
TGTCCTCTCTGTCCCATAACCTACCTCCACCTCCCCCTAGCCAGCCAGGCAGCTTCTCTGCCTGGGAGGGGAGC  
CTGGACCCCTCTTTCTCCTTGGCTGCAGTGGGGCCTTTATCCAGTGCCAGGGAGGAACAACATAGTTAATTTT  
TTTCTAACCTTGCCACTTTGAGGGAAGGAAGGGTTGGGGGAAGGGCAAGCTTTATGGGACCCTGGTCCTGGCCCT  
GGCCTTTCACCTCCAGTTCTGGGTGAGGCAGGAGCTGGGAGGGGTGGGGAGGGGGAGGGGGAAGTGTCTGCCTTTA  
TGTCCTTTCTTCTGAAATAAAAGGAAAAGCATTCTGGAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2364**

MMRFMLLFSRQGKRLRLQKWYLATSDKERKKMVRELMQVVLARKPKMCSFLEWRDLKVVKRYASLYFCCAIEGQD  
NELITLELIHRYVELLDKYFGSVCELDIIFNFEKAYFILDEFMGGDVQDTSTFPFSH

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**FIGURE 2365**

GTGGGACGCGCCGAGCCGGAGGCTGCAGGATGATGCGGTTCATGCTATTATTCAGCCGGCAGGGAAAAGTGC GGC  
TGCAAAAATGGTACCTGGCCACTTCGGACAAGGAACGGAAGAAGATGGTGC GCGAGCTCATGCAGGTTGTCCTGG  
CTCGAAAGCCCAAGATGTGCAGCTTCCTGGAGTGGAGGGACCTCAAAGTTGTCTATAAGAGATATGCCAGCCTCT  
ACTTCTGCTGCGCCATCGAGGGCCAAGACAATGAGCTCATCACACTGGAGCTGATCCACCGATACGTGGAGCTCT  
TAGACAAATACTTTGGCAGTGTGTGCGAGCTGGACATCATCTTCAACTTTGAGAAGGCCTACTTCATCCTGGATG  
AGTTTTTGATGGGGGGGGATGTCCAGGACACCTCCAAGAAGAGTGTGCTGAAAGCCATCGAGCAGGCTGACCTAC  
TGCAAGAGGAGGATGAGTCGCCACGGAGTGTGCTGGAGGAGATGGGTTTGGCATAGCCCCCTGCTGGGCCGGGGTG  
TGGCGATGGGGTCCTGGCAGCGTGGCGGGAACGGCTGCTTCTCCTCTGCCCAGGGCCCTGTTCTTGGTGGGACTC  
GGCTGCCCCCTCCTC

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**FIGURE 2366**

MMRFMLLFSRQGLRLQKWYLATSDKERKKMVRELMQVVLARKPKMCSFLEWRDLKVVKRYASLYFCCAIEGQD  
NELITLELIHRYVELLDKYFGSVCELDIIFNFEKAYFILDEFILMGGDVQDTSKKSVLKAIEQADLLQEEDESPRS  
VLEEMGLA



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**FIGURE 2367**

CCAGCGTGCTGAAGCCGGAGCGAGCTAGCCGCCCGGAGCCGCGCCGACCCAGCTGAGCCCAGCCCACGGGACGCC  
AGACCTCGACCGTCGCTCCTACCCCGGCCACCGCTCGGAGCCGAGGCGGACGCGTCCCGATCTTCCCCTGTCCCC  
ACCTTGCCCCGACCCTCCTCTCCACCTCTCGCGTCGTGACACCAGCGTCTCCGGCAGCCTCTTGGTCATGAAAGC  
CCTCAGATTGTTCGGCTTCCGCCCTCTTCTGCCCTTCTGCTGATCAACGGGTTAGGGGCGAGCACCCTTGGTCGCC  
TGAGGCGCAGCCTCCTCCTCTCAGCTCTGAGCATAAAGAGCCGGTAGCCGGGGACGAGTGGCCGGGCCAAAGGA  
TGGCAGCGCCCCAGAGGTCCGAGGCGCTCGGAATTCCGAGCCGCAGGACGAGGGAGAGCTTTTCCAGGGCGTGGA  
TCCCCGGGCGCTGGCCGCGGTGCTGCTGCAGGCACTCGACCGTCCCGCCTCACCCCCGGCACCAAGCGGCTCCCA  
GCAGGGGCGCGGAGGAAGAAGCAGCTGAAGCTCTGCTGACCGAGACCGTGCAGCAGCCAGACCCACAGCCTCCCGGC  
GCCGGAGAGCCCGGAGCCCGCGGGCTCCGCCTCGCCCTCAGACTCCGGAGAATGGGCCCCGAGGCGAGCGATCCCTC  
CGAGGAGCTCGAGGCGCTAGCGTCCCTGCTCCAGGAAGTGCAGAGATTTAGTCCAAGTAGCGCCAAGCGCCAGCA  
GGAGACGGCGGCGAGCAGAGACGGAAACCCGCACGCACACGCTGACCCGAGTGAATCTGGAGAGCCCGGGGCCAGA  
GCGCGTATGGCGCGCTTCTTGGGGAGAGTTCCAGGCGCGTGTCCCGAGCGCGCGCCCCCTGCCGCCCGGGCCCC  
CTCTCAATTCCAGGCGCGTATGCCCCGACAGCGGGCCCCCTTCCCGAAACCCACAAGTTCGGGGAAGGAGTGTCTC  
CCCCAAAACACACCTAGGCGAGGCATTGGCACCCCTGTCCAAGGCGTACCAAGGCGTGGCCGCCCGCTTCCCCAA  
GGCGCGCCGGCCGGAGAGCGCACTCCTGGGCGGCTCCGAGGCGGGCGAGCGCCTTCTCCAGCAAGGGCTGGCGCA  
GGTGGAGGCCGGGCGGCGGCGAGGCGGAGGCCACGCGGCGAGCCGCGGCGCAGGAAGAGCGGCTGGCCGACCTCGC  
CTCGGACCTGCTGCTCCAGTATTTGCTGCAGGGCGGGGCCCGGCGAGCGCGCCTCGGGGGTGGGGGCTGCAGGA  
GGCGGCGGAGGAGCGAGAGAGTGAAGGGAGGAGGAGGAGGCGGAGCAGGAGAGACGCGGCGGGGAGGAGAGGGT  
GGGGGAAGAGGATGAGGAGGCGGCCGAGGCGGAGGCGAGGCGGAGGAGGCGGAGAGGGCGCGGCAGAACGCGCT  
CCTGTTTCGCGGAGGAGGAGGACGGGGAAGCCGGCGCCGAGGACAAGCGCTCCAGGAGGAGACGCCGGGCCACCG  
GCGGAAGGAGGCCGAGGGGACAGAGGAGGGCGGGGAGGAGGAGGACGAGGAGATGGATCCGCAGACGATCGA  
CAGCCTCATTGAGCTGTCCACCAAACCTCCACCTGCCAGCGGACGACGTGGTCAGCATCATCGAGGAGGTGGAGGA  
GAAGCGGAAGCGGAAGAAGAAGACGCCCTCCCGAGCCCGTGCCGCCCCCGCTGCCGCCCCCGCCCCACCCACGT  
CCGCTCCCCGCAGCCCCCGCCCCCGCCCCCGCTCCCGCACGAGACGAGCTGCCGGACTGGAACGAGGTGCTCCC  
GCCCTGGGATCGGGAGGAGGACGAGGTGTACCCGCCAGGGCCGTACCACCCTTTCCCCAACTACATCCGGCCGCG  
GACACTGCAGCCGCCCTCGGCCTTGCGCCGCCGCACTACCACCACGCCTTGCCGCCTTCGCGCCACTATCCCGG  
CCGGGAGGCCAGGCGCGGCGCGCGCAGGAGGAGGCGGAGGCGGAGGAGCGCCGGCTGCAGGAGCAGGAGGAGCT  
GGAGAATTACATCGAGCACGTGCTGCTCCGGCGCCCGTGACTAGCCCTTCCCGGTCCCGCCCCGCGCGCCCCGC  
CGCGCGCGCGCGCCGGCGCCCCCTCCGTGTTGCCCGCTCCCCCTCGGTGTTTGCATGCGCCCCGGCCCTGCCCC  
TTGGCCCTGCCCTGTCCCCGGGCTGCGTGGGACCTGCCAGACCCCTCCCGGTCTGAGCCCGAACTCCCA  
GAGCTACCCGCGGGTGACCGGGGGCCAGCCAGGAGGGCGGGTGGTTTGTGCGAGTTCCCTTGCCACGCGGGC  
CCCGGCCCCATCAAGTCCCTCTGGGGACGTCCCCGTGGAAACCGGAAAAAGCAGTTCCAGTTAATTGTGTGAAG  
TGTGTCTGTCTCCAGCCCTTCGGGCCTCCACGAGCCCTCCAGCCTCTCCAAGTCGCTGTGAATTGACCCCTC  
TTTCCTTTCTCTGTTGTAAATACCCCTCACGGAGGAAATAGTTTGTCTAAGAAATAAAAGTGACTATTTT

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**FIGURE 2368**

MKALRLSASALFCLLLINGLGAAPPGRPEAQPPPLSSEHKEPVAGDAVPGPKDGSAPENVRGARNSEPQDEGELFQ  
GVDPRALAAVLLQALDRPASPPAPSGSQQGPEEEAAEALLTETVRSQTHSLPAPESPEPAAPPRPQTPENGPEAS  
DPSEEEALASLLQELRDFSPSSAKRQQETAAAETETRTHLTTRVNLESPGPERVWRASWGEFQARVPERAPLPP  
PAPSQFQARMPDSGPLPETHKFGEVSSPKTHLGEALAPLSKAYQGVAAPFPKARRPESALLGGSEAGERLLQQG  
LAQVEAGRRAEATRQAAAQEERLADLASDLLLQYLLQGGARQRLGGRGLQEAAEERESAREEEEEAEQERRGGE  
ERVGEEDDEAAEAEAEAEAEERARQNALLFAEEEDGEAGAEDKRSQEETPGHRRKEAEGTEEGGEEEDDEEMDPQ  
TIDSLIELSTKLHLPADDVVSIIIEVEEKRRKKNAPPEPVPPPRAAPATHVRSPQPPPPAPAPARDELDPWNE  
VLPPWDREDEVEYPPGPYHFPNYIRPRTLQPPSALRRRHYHHALPPSRHYPGREAAQARRAQEEAEAEERRLQEQ  
EELENYIEHVLLRRP

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**FIGURE 2369**

GGCACGAGGGCTTCCACATGTGTCAAGCGGCTGGCTCAGCCCAGAGTCCCTGTCTCCCGCCCCCGGGCCCCGAGCC  
GCCGCCCCCTCCCCCGCTCCCGTGCGCCCCGGGACAATCCTCGCCTTGCTGTGGCGCCGGCATCTGGAGCTTTCT  
GTAGCCTCCGGATACGCCTTTTTTTCAGGGCGTAGCCCCAGCCAAGCTGCTCCCGCGGGCGGCCGACAGCAGCC  
CGAGCGCCCCCTTTCCGGAGCTCCCCCTCCGGAGCTGGGATCCAGGCGCGTAGCGGAGATCCCAGGATCCTGGGTG  
CTGTCTGGGCCCCGCTCCCCACCATGACCTCCTCGGGGCGCTGGACCCCGGTTCCCTGCTGCTGCTGCCGCTGCTGCT  
GCCCCCTGCGGCCTCAGCCTCCGACCGGCCCCGGGGCCGAGACCCGGTCAACCCAGAGAAGCTGCTGGTGATCAC  
TGTGGCCACAGCTGAAACCGAGGGGTACCTGCGTTTCCTGCGCTCTGCGGAGTTCTTCAACTACACTGTGCGGAC  
CCTGGGCCTGGGAGAGGAGTGGCGAGGGGGTGATGTGGCTCGAACAGTTGGTGGAGGACAGAAGGTCCGGTGGTT  
AAAGAAGGAAATGGAGAAATACGCTGACCGGGGAGGATATGATCATCATGTTTGTGGATAGCTACGACGTGATTCT  
GGCCGGCAGCCCCACAGAGCTGCTGAAGAAGTTCGTCCAGAGTGGCAGCCGCCTGCTCTTCTCTGCAGAGAGCTT  
CTGCTGGCCCCGAGTGGGGGCTGGCGGAGCAGTACCTGAGGTGGGCACGGGGAAGCGCTTCCTCAATTCTGGTGG  
ATTCATCGGTTTTTGCCACCACCATCCACCAAATCGTGCGCCAGTGGAAGTACAAGGATGATGACGACGACCAGCT  
GTTCTACACACGGCTCTACCTGGACCCAGGACTGAGGGAGAACTCAGCCTTAATCTGGATCATAAGTCTCGGAT  
CTTTCAGAACCTCAACGGGGCTTTAGATGAAGTGTTTTAAAGTTTGATCGGAACCGTGTGCGTATCCGGAACGT  
GGCCTACGACACGCTCCCCATTGTGGTCCATGGAAACGTTCCACTAAGCTGCAGCTCAACTACCTGGGAAACTA  
CGTCCCCAATGGCTGGACTCCTGAGGGAGGCTGTGGCTTCTGCAACCAGGACCGGAGGACACTCCCGGGGGGGCA  
GCCTCCCCCCCCGGGTGTTTTCTGGCCGTGTTTGTGGAACAGCCTACTCCGTTTCTGCCCCGCTTCCTGCAGCGGCT  
GCTACTCCTGGACTATCCCCCGACAGGGTCACCTTTTCTGTCACAACAACGAGGTCTTCCATGAACCCACAT  
CGCTGACTCCTGGCCGCAGCTCCAGGACCACTTCTCAGCTGTGAAGCTCGTGGGGCCGAGGAGGCTCTGAGCCC  
AGGCGAGGCCAGGGACATGGCCATGGACCTGTGTGCGCAGGACCCCGAGTGTGAGTTCTACTTCAGCCTGGACGC  
CGACGCTGTCTCACCAACCTGCAGACCCTGCGTATCCTCATTGAGGAGAACAGGAAGGTGATCGCCCCCATGCT  
GTCCCGCCACGGCAAGCTGTGGTCCAACCTTCTGGGGCGCCCTGAGCCCCGATGAGTACTACGCCCCGCTCCGAGGA  
CTACGTGGAGCTGGTGCAGCGGAAGCGAGTGGGTGTGTGGAATGTACCATACATCTCCAGGCCTATGTGATCCG  
GGGTGATACCCTGCGGATGGAGCTGCCCCAGAGGGATGTGTTCTCGGGCAGTGACACAGACCCGGACATGGCCTT  
CTGTAAGAGCTTTTCGAGACAAGGGCATCTTCTCCATCTGAGCAATCAGCATGAATTTGGCCGGCTCCTGGCCAC  
TTCCAGATACGACACGGAGCACCTGCACCCCGACCTCTGGCAGATCTTCGACAACCCCGTCTGACTGGAAGGAGCA  
GTACATCCACGAGAACTACAGCCGGGCCCTGGAAGGGGAAGGAATCGTGGAGCAGCCATGCCCGGACGTGTACTG  
GTTCCCACTGCTGTGAGAACAATGTGTGATGAGCTGGTGGCAGAGATGGAGCACTACGGCCAGTGGTCAGGCGG  
CCGGCATGAGGATTCAAGGCTGGCTGGAGGCTACGAGAATGTGCCACCCTGGACATCCACATGAAGCAGGTGGG  
GTACGAGGACCAGTGGCTGCAGCTGCTGCGGACGTATGTGGGCCCATGACCGAGAGCCTGTTTCCCGGTTACCA  
CACCAAGGCGCGGGCGGTGATGAACCTTTGTGGTTTCCTACCGCCAGACGAGCAGCCGTCTCTGCGGCCACACCA  
CGACTCATCCACCTTACCCTCAACGTTGCCCTCAACCACAAGGGCCTGGACTATGAGGGAGGTGGCTGCCGCTT  
CCTGCGCTACGACTGTGTGATCTCCTCCCCGAGGAAGGGCTGGGCACTCCTGCACCCCGGCCGCTCACCCACTA  
CCACGAGGGGCTGCCAACGACCTGGGGCACACGCTACATCATGGTGTCTTTGTGACCCCTGACACTCAACCAC  
TCTGCCAAACCTGCCCTGCCATTGTGCCTTTTTAGGGGGCCCTGGCCCCCGTCTGGGAGTTGGGGGATGGGTCTC  
TCTGTCTCCCCACTTCTGAGTTTATGTTCCGCGTGCCTGAACCTGAATATGTCACCTTGCTCCCAAGACACGGCC  
CTCTCAGGAAGCTCCCGAGTCCCGCCTCTCTCCTCCGCCACAGGGGTTCTGTTGGGCACAGGGCTTCTGGGGAC  
TCCCCGCGTGATAAATTATTAATGTTCCGCAGTCTCACTCTGAATAAAGGACAGTTTGTAAAAA

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**FIGURE 2370**

MTSSGPGPRFLLLLPLLLPPAASASDRPRGRDPVNPEKLLVITVATAETEGYLRFLRSAEFFNYTVRTLGLGEEW  
RGGDVARTVGGGQKVRWLKKEMEKYADREDMIIMFVDSYDVILAGSPTTELLKKFVQSGSRLLFSAESFCWPEWGL  
AEQYPEVGTGKRFLNSGGFIGFATTIHQIVRQWKYKDDDDQLFYTRLYLDPGLREKLSLNLDHKSRIQNLNGA  
LDEVVLKFDRNRVRIRNVAYDTLP IVVHGNGPTKLQLNYLGNYVPNGWTPEGGCGFCNQDRRTLPGGQPPPRVFL  
AVFVEQPTPFLPRFLQRLLLLDYPPDRVTFLHNNEVFHEPHIADSWPQLQDHFSAVKLVGPPEEALSPGEARDMA  
MDLCRQDPECEFYFSLDADAVLTNLQTLRILIEENRKVIAPMLSRHGKLWSNFWGALSPDEYYARSEDYVELVQR  
KRVGVWNVPIYSQAYVIRGDTLRMELPQRDVFSGSDTDPDMAFCKSFDRDKGIFLHLSNQHEFGRLATSRYDTEH  
LHPDLWQIFDNPVDWKEQYIHENYSRALEGE GIVEQPCPDVYWFLLSEQMCDELVAEMEHYGQWSSGGRHDSRL  
AGGYENVPTVDIHMKQVGYEDQWLQLLRTYVGPMTESLFPGYHTKARAVMNFVVRYRPDEQPSLRPHHDSSTFTL  
NVALNHKGLDYEGGGCRFLRYDCVISSPRKGWALLHPGRLTHYHEGLPTTWGTRYIMVSFVDP

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**FIGURE 2371**

GCAGTTTATTCCGACAGTTGTGTTGTGCCAATGGTGGAGAAGAAAAC TTCGGTTCGCTCCCAGGACCCCGGGCAG  
CGGCGGGTGCTGGACCGGGCTGCCCCGGCAGCGTCGCATCAACCGGCAGCTGGAGGCCCTGGAGAATGACAACTTC  
CAGGATGACCCCCACGCGGGACTCCCTCAGCTCGGCAAGAGACTGCCTCAGTTTGATGACGATGCGGACACTGGA  
AAGAAAAAGAAGAAAACCCGAGGTGATCATTTTAAACTTCGCTTCCGAAAAAACTTTCAGGCCCTGTTGGAGGAG  
CAGAACTTGAGTGTGGCCGAGGGCCCTAACTACCTGACGGCCTGTGCGGGACCCCCATCGCGGCCCCAGCGCCCC  
TTCTGTGCTGTCTGTGGCTTCCCATCCCCCTACACCTGTGTCAGCTGCGGTGCCCGGTACTGCACTGTGCGCTGT  
CTGGGGACCCACCAGGAGACCAGGTGTCTGAAGTGGACTGTGTGAGGCCTGGGCATTCCCAGAGAGGAAGGGCCGC  
TGTGCACTGCCCCGGCCTTCAGAAAGACAGAATTCATCACCCAATGCAGGGGGAGCTCTTCCTGGACCAAGGGAG  
GAGCCGCTCATTACCCAACAAAACCTGTGTCTTATCTGCCAGGAAAGACCAGCCTCACTCCTGGGAACGTGCTGG  
CAGGTAGGCTGGGCCCCCAGTGCTGTTAGAATAAAAAGCCTCGTGCCGG

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**FIGURE 2372**

MVEKKTSVRSQDPGQRRVLDRAARQRRINRQLEALENDNFQDDPHAGLPQLGKRLPQFDDADTGKKKKKTRGDH  
FKLRFRKNFQALLEEQNLSVAEGPNYLTACAGPPSRPQRPFCAVCGFPPSYTCVSCGARYCTVRCLGTHQETRCL  
KWTV

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**FIGURE 2373**

ATATACTTGC GCGCCGACGCCGCCGCTCGCTTGTGAAACTGGAAGGCTGCC**ATGG**CTAGCCCAGCCGCCTCCTCG  
GTGCGACCACCGAGGCCCAAGAAAGAGCCGCAGACGCTCGTCATCCCCAAGAATGCGGCGGAGGAGCAGAAGCTC  
AAGCTGGAGCGGCTCATGAAGAACCCGGACAAAGCAGTTCCAATTCCAGAGAAAATGAGTGAATGGGCACCTCGA  
CCTCCCCCAGAATTTGTCCGAGATGTCTATGGGTTCAGTGCTGGGGCCGGCAGTGGAGAGTTCCACGTGTACAGA  
CATCTGCGCCGGAGAGAATATCAGCGACAGGACTACATGGATGCCATGGCTGAGAAGCAAAAATTGGATGCAGAG  
TTTCAGAAAAGACTTGAAAAGAATAAAATTGCTGCAGAGGAGCAGACCCGCAAAGCGCCGGAAGAAGCGCCAGAAG  
TTAAAAGAGAAGAAATTACTGGCAAAGAAGATGAAACTTGAACAGAAGAAACAAGAAGGACCCGGTCAGCCCAAG  
GAGCAGGGGTCCAGCAGCTCTGCGGAGGCATCTGGAACAGAGGAGGAGGAAGTGCCAGTTTCACCATGGGG  
CG**ATGACA**ATGTTTGCCACAGCCTCTGCCTGGAACCTGGCTCGTGCTGTGACCAGAAGGGAAAGGCGGCTGTTTG  
GCTCTTTCTCCCCCGCAAGGACCCGCTGACCCGCTGGATGGAGAGCAAAGGAGACCCCTCCCGAGCCGCTCACAG  
TCCTGTATTTGGCAGGTTTGGGAGCCTGAGGGGCCATCTCCCTGACACTCAGAGGCACTGCCTTGACAGACACCAT  
CCGTGCTCCTGGTAAAGGGGGACAGAGAGCCTCACCTTGCCACATATTTGAACAGTGATGAGTTTGGGGCTGGTT  
TCTGGGAAGGGAACGTTTATTTAGTAAAGAGCAGAACACCCTTGCGTTTTGTTGGGACATGTGGACCGTGAGTCG  
CAAACACTCTGGAGAAGGCTGAGATGCCACCATTCCCACGGGGACTGAAGACACATTACGTGGACCTGGTCCCAG  
GCTCAGTGAGGAGATGGCCTCAGCTGTGGGGCTGGTCCATGTTGCCCACTCACTCCAGTGGGAAGTGGGGACCAC  
GCCATAGAGGGTCTGCTCCCACTGCAGCTCCCGGTGCTCTCGTGTTCTGGGAAGGCCTGGGTGTGTGCACAAGGA  
GGCCCGGGCCAGGGACTTCACCAGGGGCTGGGTCAAAAGGGCACAGGGTGTGTGGAAGCGCTGTGGGGGAAGAG  
CCGCTCACCGGAGAGTGAGCAGGCGGAGACTCCAAGCTGGGCTGAGCCAGAGCAGAAGGCGAGGGATTCCCAGCC  
GGACGGGGGTTCTCTACCAACAGCTGTGATTTTCATCCCGAAGTGGAAGGGGGTCTAAACAGAACAGGCTGAGAG  
AGGCGGGACTGGGTCAAGTGGGTGGAGCTCCTCCTTGATGACTGCAACTGTCGGGGCTTTCCGCCGGCTCACAG  
CAGTTGGGGCCAGCGGGGAGAAGAGAGGCGGAACCTGCTGTGTCTCACGTGGCGCAGCCTCAAACCTGGCATCCAG  
GCACTGGGCCCCTGCAGAGAAGGCACCTGCAGAGAGCAGGGCAGCCCGGCGCAGGGGCATGCGCCTAGAATCCCA  
GCTACTCGGAAGGCCAAGGCAGGAGGACCGCTTGAGTCCAGGGATTCAAGGCCAACCTGGGCAATAGAGCGAGAC  
CCTGTCTCTTAAAAAACGATGATGATGAACACAGAGGACGGGGCACTGTGCTGGGAGCCAGGGGGCCTGGGAGGA  
GCCGAGACCAGCCTTTTACCTCGGGGTTTTGAGGCCAACAGGGACGACAGAGACAGTTTCTAGTTAGAGCCTTGG  
CTCCATTTTTGGATGATTTAGCCCCGAGTTCTTGAGTCTATTTTATGCCCTTACGTACTTTGATAGAACTAAGG  
AAATAGTGGTTTTGAGTGAAGGGAAGGAAACCCAGAAACATTTTACGTTGCTTTTACTTCTGTAGTGTAGATTG  
CCCCGGCCCCCTCTCTGAGCCCTGTAGCATCTGTGATAGCTTCTGTCCCTTCATCGGTTTCATGTCACAGGGATTTT  
CTTTCCCAGGAAGCGGACACGGAGAGTCAGCCCTAATAAATGAGCACATGCCCTGGCTGTACATTTTGAAACCTG

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**FIGURE 2374**

MASPAASSVRPPRPKKEPQTLVIPKNAAEEQKLKLERLMKNPDKAVPIPEKMSEWAPRPPPEFVRDVMGSSAGAG  
SGEFHVYRHLRRREYQRQDYMDAMAEKQKLDAEFQKRLEKNKIAAEEQTAKRRKKRQKLKEKKLLAKKMKLEQKK  
QEGPGQPKEQGSSSSAEASGTEEEEEEVPSFTMGR



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**FIGURE 2375**

CGCTCGGCGCCCCGGCCGGGCCACTGGGCCACAGGCCACGCGGCCACGCAGTCCGAGCGGGAGCCGAGCCGGGCG  
GGGCGAGGGCAGCTCCGGAACGTCCCAGGGATGGAAGTGCTTGGATGCGGTGCTGCTGGCTGCGGATGTGCGCAA  
GGAGATGGGATGGAGAGCCTGAGTTGGCATTCTGATATAAATGACCTGCCTGGCTCCCACCATGAGTGCTGAGCTTA  
ACGTGCCTATCGACCCCTCTGCTCCTGCCTGCCCTGAGCCCCGGCCATAAGGGCATGGATTACCGGGACTGGGTCC  
GCCGAGCTACCTGGAACCTGGTCACCTCTAACCACTCGGTACAGGCCCTGTCTGGCGGAAGCTCTACCTGA  
GCAGGGCCAAGCTGAAGGCCTCCAGCAGGACCTCCGCCCTCCTCTCCGGCTTTGCCATGGTGGCCATGGTGGAGG  
TGCAGCTGGAGACGCAGTACCAGTACCCGCGGCCGCTGCTGATTGCCTTCAGCGCCTGCACCACGGTGCTGGTGG  
CCGTGCACCTGTTTCGCCCTCCTCATCAGCACCTGCATCCTGCCCAATGTGGAGGCCGTGAGCAACATCCACAACC  
TGAACCTCCATCAGCGAGTCCCCGCATGAGCGCATGCACCCCTACATCGAGCTGGCCTGGGGCTTCTCCACCGTGC  
TTGGCATCCTACTCTTTCCTGGCCGAGGTGGTGTCTGTCTGGATCAAGTTCTTCCCGTGGATGCCCGGCCG  
AGCCTGGCCCCCACCTGGCCCTGGGAGTCACACGGGCTGGCAGGCCGCCCTGGTGTCCACCATCATCATGGTGC  
CCGTGGGCCTCATCTTCGTGGTCTTCACCATCCACTTCTACCGCTCCCTGGTGCGCCACAAAACGGAGCGCCACA  
ACCGCGAGATCGAGGAGCTCCACAAGCTCAAGGTCCAGCTGGACGGGCATGAGCGCAGCCTGCAGGTCTTGTGAG  
GGGCCGAGGGCCGGGGCTGGGAGCGGCCCTGTGCCCGGAGTCCGCAGAGGCGGGGATTTGTGAGATGCAGACAT  
TTTGCAAGGCTGCCGGGTAGTTCAAGACCAAAGTTTCTCTTGTCTTAATACCATAAGGACTGGATGACTTCTC  
CTGAGATAGAACCCTTTGGTTCAATGAGGGACTGTGTGCTAAGAGCGTTGGGGGCAAAGCCAGGCTGGTTCCTT  
GGCCTCGGGGTTTCTTGGGTGGGGACACGGTGAAGAGGCTCCAGCGGGACCTGCCCATCAGTCTTGGGCCAGGA  
GGGGCTCCAAGCAGCACCCAGCGGTCCGGGGGAGTCTCAGACCCGGCATGCGTGGCTGGCAGACCTGGGAGAGCC  
AGGGCAGGGTTTTGCGTTCAGAGAAGGATTGCCCCAGAGACCCGTGGTGGACTTCATGGGTGCTGAGTGGCCCGT  
GTGACAGTGATGACACGAAGGCTTCGGCGTTTGAGTGGGTGCAGGTGCAGCCAGGGCTTGGTGCTTCCCTGCCT  
GGCCCTGGAGGGAGCTGGGTGGCCTGGCTTCAGGGGAAGACAGGAGCCAGGACACACGTCAGCCAGCAGGTGTG  
GGGGGTGCTGCAGCCCTCGGCAGTGGGGTCAGGCCCTGGGGGATGTTTCCAATGGTGGGCAGCCTGGCCAGGCCG  
GAGAAGACATGTTACGGGCATCTATCAGATGCCCCCTTGAGGAGGCTGAGTTATTTGAGGGCTGCTGCAAAGTA  
CGCTAGGCTCAAATTCTCTTTTCCAGCCAGAGCCCTGGCCACACGGACTCAGAGGGGGCCACCGGGGTGGGGAAA  
GGACCCCTCCCCACCCCGCAGCCACTGGCCTCCAGCTCTCGGCCACAGAATGGCCTCTAAGGCTGACTCAGC  
CACTCCCTTGGGCTGTGGCAGCAGGAGCGGGGGCTCTGGCTCAGGCCCGGAGCCTGTGCAGCTTGCCCATGGC  
CCTAGGCAGCGAGGGACAGCCTGGGGGACTTCTGCCTAGGCAAGGTCATTGGCCGGGCCTGGCCTGTGGATAG  
TGGGGCCAGGGGCCGGCCAGGCCAAATGAGTGCCCTCCTTGTATGACACCAAGTGACTACAAGGGAGGCAAGA  
CCCCCTCAGGCCTCTCAGCCGACACTGGGTCCCACCACACACAGTGACTGTGCCGTGCAGTGCAAGTTCTGGCCT  
TTTCCTTGAAGGCATCTGGTAGACCCGAAGCCACGCTCTCGGGCCGCACATGCACGCCGAGCACCAGCTGCCCT  
GAGCTGCTTGTACAACCAAACACCTTTCCCTCTTCTCCAGCTGTAACCTGGAGAGTCAGCCATGCCTTGTCTTT  
TGTTCTCATAAATAGTCACTGGGGCCGGGCGCAGTGACTCACGCCTGTAATCCAGCACTTTGGGAGGCCTAGGT  
GGGCGGATCACTTGAGGTGAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAAAAT  
ACAGAAAATTAGCTGGGCGTGGTGGCGGGCGCCTGTAGCCCCAGCTACTTGGGAGGCTGAGGCGGGAGAATGGCA  
ATGGCGTGAACCCGGGAGGCAGAGCTTGACAGTGAGCTGAGATGGCGCCACTGCACTCCAGCCTGGGCGACAGAGC  
CAGACTCCATCTC

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**FIGURE 2376**

CGGCGGTGGCGGACACTTGGGGTCTGGACGCAACGGCGGGGAGCATGAACGCCCCTCCAGCCTTCGAGTCGTT  
CTTGCTCTTCGAGGGCGAGAAGATCACCATTAACAAGGACACCAAGGTACCCAATGCCTGTTTATTCACCATCAA  
CAAAGAAGACCACACACTGGGAAACATCATTAAATCACGTGCCTGCTTCCCCTTCGCCTTCTGCCGTGATTGTCA  
GTTTCCTGAGGCCTCCCCAGCCACGCTTCCTGTACAGCCTGCAGAACTCTGCCCCAGAGCACATCAGCTATGTGC  
CCCAGCTCTCAAACGACACCTTGGCGGGGAGGCTCACCCGTGCCACCTTCACGCTGGAGCAGCCTCTAGGCCAGT  
TCAGCAGCCACAACATCTCTTGA

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**FIGURE 2377**

MNAPPAFESFLLFEGEKITINKDTKVPNACLF TINKEDHTLGNI IKS RACFPFAFCRDCQFPEAS PATLPVQP AE  
LC PRAHQLCAPALKRHLGGEAHPVHLHAGAASRPVQQPQHL

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**FIGURE 2378**

CCATTGTGCTCTAAAGGGAAGGTGCTGTGTAATCATTAAAGGAGCGGAGGCTTTTGGAGCTGCTAAAATGCCGGAT  
TACCTCGGTGCCGATCAGCGGAAGACCAAAGAGGATGAGAAGGACGACAAGCCCATCCGAGCTCTGGATGAGGGG  
GATATTGCCTTGTTGAAAACCTTATGGTCAGAGCACTTACTCTAGGCAGATCAAGCAAGTTGAAGATGACATTCAG  
CAACTTCTCAAGAAAATTAATGAGCTCACTGGTATTAAAGAATCTGACACTGGCCTGGCCCCACCAGCACTCTGG  
GATTTGGCTGCAGATAAGCAGACACTCCAGAGTGAACAGCCTTTACAGGTTGCCAGGTGTACAAAGATAATCAAT  
GCTGATTCCGAGGACCCAAAATACATTATCAACGTAAAGCAGTTTGCCAAGTTTGTGGTGGACCTTAGTGATCAG  
GTGGCACCTACTGACATTGAAGAAGGGATGAGAGTGGGCGTGGATAGAAATAAATATCAAATTCACATTCCATTG  
CCTCCTAAGATTGACCCAACAGTTACCATGATGCAGGTGGAAGAGAAACCTGATGTCACATACAGTGATGTTGGT  
GGCTGTAAGGAACAGATTGAGAACTGCGAGAAGTAGTTGAAACCCATTACTTCATCCAGAGAGGTTTGTGAAC  
CTTGGCATTGAGCCTCCCAAGGGCGTGCTGCTCTTTGGTCCACCCGGTACAGGCAAGACACTCTGTGCGCGGGCA  
GTTGCTAATCGGACTGATGCGTGCTTCATTGAGTTATTGGATCTGAGCTTGTACAGAAATACGTCGGTGAGGGG  
GCTCGAATGGTTTCGTGAACCTTTTGAAATGGCCAGAACAAAAAAGCCTGCCTTATCTTCTTTGATGAAATTGAT  
GCTATTGGAGGGGCTCGTTTTGATGATGGTGCTGGAGGTGACAATGAAGTGCAGAGAACAATGTTGGAAC TGATC  
AATCAGCTTGATGGTTTTGATCCTCGAGGCAATATTAAAGTGCTGATGGCCACTAACAGACCTGATACTTTGGAT  
CCAGCACTGATGAGGCCAGGGAGATTGGATAGAAAAATTGAATTTAGCTTGCCCGATCTAGAGGGTTCGGACCCAC  
ATATTTAAGATTACGCTCGTTCAATGAGTGTTGAAAGAGATATCAGATTTGAACTGTTAGCACGACTGTGTCCA  
AATAGCACTGGTGCTGAGATTAGAAGCGTCTGCACAGAGGCTGGTATGTTGCCATCAGAGCACGGCGAAAAATT  
GCTACCGAGAAGGATTTCTTGGAAGCTGTAAATAAGGTCATTAAGTCTTATGCCAAATTCAGTGCTACTCCTCGT  
TACATGACATACAAC TGAACCCTGAAGGCTTTCAAGTGAAAACCTTAAATTGGAATCCTAACCTTATATAGACTT  
GTTAATAACCAATTCATAAACAAATAAATGGCTTCAACTTTAGAGCACAAATGG

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**FIGURE 2379**

MPDYLGADQRKTKEDKDDKPIRALDEGDIALLKTYGQSTYSRQIKQVEDDIQQLKKINELTGIKESDTGLAPP  
ALWDLAADKQTLQSEQPLQVARCTKIINADSEDPKYIINVKQFAKFVVDLSQVAPTDIEEGMRVGVDNRNKYQIH  
IPLPPKIDPTVTMMQVEEKPDVTYSVGGCKEQIEKLREVVETPLLHPERFVNLGIEPPKGVLLFGPPGTGKTLC  
ARAVANRTDACFIRVIGSELVQKYVGEGARMVRELFEMARTKKACLIFFDEIDAIGGARFDDGAGGDNEVQRTML  
ELINQLDGFDPGRGNIKVLMATNRPDTLDPALMRPGRDRKIEFSLPDLEGRTHIFKIHARSMSVERDIRFELLAR  
LCPNSTGAEIRSVCTEAGMFAIRARRKIMATEKDFLEAVNKVIKSYAKFSATPRYMTYN

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**FIGURE 2380**

CTTTCCTCTGCCAACATGGCGGCCTCAGCAAAAAAGAAGAATAAGAAGGGGAAGACTATCTCCCTAACAGACTT  
TCTGGCTGAGGATGGGGGTACTGGTGGAGGAAGCACCTATGTTTCAAACCAGTCAGCTGGGCTGATGAAACGGA  
TGACCTGGAAGGAGATGTTTCTACAACCTGGCACAGTAACGATGACGATGTGTACAGGGCGCCTCCAATTGACCG  
TTCCATCCTTCCCACTGCTCCACGGGCTGCTCGGGAACCCAATATCGACCGGAGCCGTCTTCCCAAATCGCCACC  
CTACACTGCTTTTCTAGGAAACCTACCCTATGATGTTACAGAAGAGTCAATTAAGGAATTCTTTTCGAGGATTAAA  
TATCAGTGCAGTGCGTTTACCACGTGAACCCAGCAATCCAGAGAGGCTGAAAGGTTTTGGTTATGCTGAATTTGA  
GGACCTGGATTCCCTGCTCAGTGCCCTGAGTCTCAATGAAGAGTCTCTAAGTAACAGGAGAATTCGAGTGGACGT  
TGCTGATCAAGCACTGGATAAAGAGTATCGAGATCGTTATGATTCAGACCGGTATCGGGATGGGTATCGGGATGG  
CCCACGCCGGGATATGGATCGATATGGTGGCCGGGATCGCTATGATGACCGAGGCAGCAGAGACTATGATAGAGG  
CTATGATTCCCGGATAGGCAGTGGCAGAAGAGCATTTGGCAGTGGGTATCGCAGGGATGATGACTACAGAGAAGG  
CAGGGACTGCTATGAAGACCAATATGACAGACGGGATGATCGGTCGTGGAGCTCCAGAGATGATTACTCTCGGGA  
TGATTATAGGCGTGATGATAGAGGTCCCCCCCCCCCCAAAGACCCAAACTGAATCTAAAGCCTCGGAGTACTCCT  
AAGGAAGATGATTCCTCTGCTAGTAACTCCCAGTCCACTCGAGCTGCTTCTATCTTTGGAGGGGCAAAGCCTGTT  
G

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**FIGURE 2381**

CCTAACAGACTTTTCTGGCTGAGGATGGGGGTACTGGTGGAGGAAGCACCTATGTTTCCAAACCAGTCAGCTGGGC  
TGATGAAACGGATGACCTGGAAGGAGATGTTTCTACAACCTTGGCACAGTAACGATGACGATGTGTACAGGGCGCC  
TCCAATTGACCGTTCCATCCTTCCCACTGCTCCACGGGCTGCTCGGGAGAGACACCCAAGCTGGCAAAGTGAAGA  
AACTCAGGAACGGGAACGGTCGAGGACAGGAAGTGAGTCATCACAGACTGGGACCTCCACCACATCTGGCAGAAA  
TGCATGAAGGAGAGAGAGTGAGAAGTCTCTAGAAAATGAAACACTCAATAAGGAGGAAGATTGCCACTCTCCAAC  
TTCTAAACCTCCCAAACCTGATCAGCCCCCTAAAGGTAATGCCAGCCCCCTCCACCAGGAAGATTGCTTGGGTGAA  
GCGAAGTTCTAACCCTCCTGCTCGATCTCAGAGCTCAGACACAGAGCAGCAATCCCCTACAAGTGGTGGGGGAAA  
AGTAGCTCCAGCTCAACCATCTGAGGAAGGACCAGGAAGGAAAGATGAAAATAAAGTAGATGGGATGAATGTCCC  
AAAAGGCCAAACTGGGAACTCTAGCCGTGGTCCAGGAGACTGAGGGAACAGAGACCACTGGAAGGAGTCAGATAG  
GAAAGATGGCAAAAAGGATCAAGACTCCAGATCTGCACCTGAGCCAAAGAAACCTGAGGAAAATCCAGCTTCCAA  
GTTCAAGTTCTGCAAGCAAGTATGCTGCTCTCTCTGTTGATGGTGAAGATGAAAATGAGGGAGAAGATTATGCCAA  
ATAGACCTCTACATCCTGTGCTTTTCTCCTAGTTTCTCTCCACCCTGGAACATTCGAGAGCAAATCAAAACCTCT  
ATCCAGACAAGACAAAATAAACTCACCATCTCCTGAAGACCTTTCTTACCTTTTTTTTTTAAACAAAAAATGAAA  
TTATTTTGCATGCTGCTGCAGCCTTTAAAGTATTGAAGTAACTGGAGAATTGCCAATACAGCCAGAGAGAAAGGG  
ACTACAGCTTTTATAGAGAAGTTGTGGTGCCTTATGTCACCATGCAGTTGCCAGTGTGATTAGTGCCTAGGGGTCT  
CCATTTAGCAGAAATGGTAATGACAGTGATATAACGCCTGGAACCTGGTTGGGCAGTAGGGGAGGGAGGTAGAAG  
GAAAAGTGTGAGATTCTACCTTTTAGTTTTTTTCTATTGTGGCATATATGAATTCTCAAACATTATCTGAATA  
AATTTTCCATTCTTGAAAGGTAGATTTAGCCTCAAGTTGTTTTAGTCTCCAGGAGGCTGCCAGCCCCCTCCTCTT  
ATTTAATTCTGAGTTTGGGGGACAGCCTAGAGGGAATTCCTTTTTTTTTTTTTTTTACCCCCAAGGGGGTTAG  
TTGGGAGTGAGACTATAGGCCATAAAGAATGGGACTCATTGGACCAAAATAAATGGGAAAATCGTGGTTTGAAAG  
GAAGCTTTTGGGAATTGATGAGTCATTTTGACCAGGTAATAGGGGAAAATTGTGTGACCTCCAGCAAACACATG  
AATGGTTATTTCTGAGCCGGAAGCACTTGGGGGTCTGGTAATTCCCAATGTTTCTGTGCTCTAGTTTTACC  
CTTTCTAAACACTGCTCTTTTGAAGTTTGAATATATCCACATTCTATTGAAACCTTGAAACTAAAAATTTAGA  
CTCTTATCGTCATCTTAAGTTCTTCATGCTACTCTTAACCTCCCAAAAAGCAGTATCTAAGTCACATACATGATG  
TCTTGGGCATTTTCTCTCTCAGCCATGGAGAATCTGAAAGGAAGAATCGCTGCTTTTCTCAAGCAAATCGGTTT  
CTTGATATCTTCTGGTTCTCACTCCTTGCCCTGCTCCTGATGCTTTGACCCCTTTTATTGATCAGAGTGCTCTAGA  
ATAATGGATGGTCTTGATGGTGGATAAATAGGGACAGGGACAGTTAAATTGGGAGCCTTCTTACAACCTTGAT  
GGGTTTTTTTCCCCCAAGTTTCTCTCCACTGAAATGCCACACTAATGTTTGTGGATTCTAGAGGTGGCCAG  
ACCAATGTGTTTTGTTTTGTTTTTTTTTTTTTTAAGCTTCCCTTGAGAGAATAAACGGAAATGGAGAGAATTTT  
AACAAGGTCCTGGTTTCTCTTGCAACACAGTAGCTAAACTTGCCTGCCTTTATATGCATTTTGTAGGGATCAGC  
TTGGTAGACAGTATTAGCAGAGAAAACCTTGATCTTGGTTTGCAAACCTTCTGCCATCAGTCCTAGATTAGGC  
CCTGTTTCAGCCATGCAGGGGTGTTGGTTTATGCGTGCTGCAGCAGTGGGCATAATGAATATAATTTACCCAGTGG  
ACAAAGGTGTGTACCAAGTGAATTTAAATAATTGGTGTGGATTGGCCAGTAGCTAAGAAGTGGGCTTTTAAAGAG  
TATTGAAGATTGAAAGGTGTTTTTTTTCTTTTTTAAAAAAGAAAAAAACTATTGATTGTAGATAATGAAAAGC  
TAGGGTTTGGCCTCTTCATGTCTACTCTCCTTCCAAATAGTTATATCCAAACTGTTTTTCCCTGTCCCCTACCT  
TGTCCCCCATTAATAATAGAAACAGGGATTGATTAATGTCCCGCTCCTGAATACATGTAAAATTTGTACAAAA  
TATCTTCTATGAAATGATTTGTAATCTGTAGACTTATTACCTGGGAGATGTCTTGATGTAAAATCCCATCCTTT  
GGGTTGTGGGTTTTTTGTTTTCTCCAAATAAATCTGATCTTTAAAGTTC

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**FIGURE 2382**

MAASAKKKKNGKGTISLTDFLAEDGGTGGGSTYVSKPVSWADETDDLEGDVSTTWHSNDDDVYRAPPIDRSILPT  
APRAAREPNIDRSRLPKSPFYTAFLGNLPYDVTEESIKEFFRGLNISAVRLPREPSNPERLKGFGYAEFEDLDSL  
LSALSLNEESLGNRRIRVDVADQAQDKDRDDRSFGRDRNRDSKTDTDWRARPATDSFDDYPPRRGDDSGDSYD  
SRIGSGRRAFSGGYRRDDDYRGGGDRYEDRYDRRDRSWSSRDDYSRDDYRRDDRGPPQRPKLNKPRSTPKEDD  
SSASTSQSTRAASIFGGAKPVDTAAREREVEERLQKEQEKLRQLDEPKLERRPRERHPSWRSEETQERERSRTG  
SESSQTGTSTTSSRNARRRESEKSLNETLNKEEDCHSPTSKPPKPDQPLKVMPPAPPKENAWVKRSSNPPARSQ  
SSDTEQQSPTSGGGKVAPAPQSEEGPGRKDENKVDGMNAPKGQTGNSSRGPBGDGGNRDHWKESDRKDGKKDQDSR  
SAPEPKKPEENPASKFSSASKYAALSVDGEDENEGEDYAE



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**FIGURE 2383**

GTAGCGGGAGCGGAGAGCGGACCCCGGAGAGCGGACCCAGAGAACCCTGAGCAGCCCCGCCGCTGCCGGCCTAG  
TTACCGTTCATACCACGGGAGGAGCCGCAGCTGCCGCAGCCGGCCCCAGTCTCCATCACC GCAACCAATGAGCAGC  
AAGGCCGAGACCCAGCAGCCACCCGCCGCCCGCCCTTTCCCCCACC GCGCCCCCTCCCGTCCCCCGCGCCCC  
CGCCCTCAGCGCCGCCGACACCAAGCCCGGCACTACGGGCAGCTGCGCAGGGAGCGGTGGTCCGGGCGGCCCTCAC  
ATCGGCGGCGCCTGCCAGCGTGGACAAGAAGGTCATCGCAGTGAAGGTTTTGGGAACAGTAAAAATGGTTCAATGT  
AAGGAACGGATATGGTTTCATCAACAGGAATGACACCAAGGAAGATGTATTTGTACACCAGACTGCCATAAAGAA  
TAACCCAGGAAGTACCTTCGCAGTGTAGGAGATGAAGAGACTGTGGAGTTTGATGTTGTTGAAGGAGAAGAGGG  
TGCGGAGGCAGCAAATGTTACAGATCCTGGTGGTGTTCGAGTTCAAGGCGGTAAATATGCAGCAGATCGTAACCA  
TTATAGACGCTATCCACGTCATAGGGGTCCTCCACGCAATTACCAGCAAAATTACCAGAACAGTGAGAGTGGGGA  
AAAGACCGAGGGATCGGAGAATGCTCCCGAAGGCCAGGCCCAACAATGCCGGCCCTACCGCAGGCAAAGGTTCCC  
ACCTTACTACATGCGGAGACCCTATGGGTGTGACCACAGTATTCCAGCCCTCCTGTGCAGGGAGAAGTGATGGA  
GGGTGCTGACAACCAGGGTGCAGGAGAACAAGGTAGACCAGTGAGGCAGAATATGTATCGGGGATATAGACCACG  
ATTCCGCAGGGGCCCTCCTTGCCAAAGACAGCCTAGAGAGTACGGCAATGAAGAAGATAAAATCAAGGAGATGAG  
ACCCAGGGTCAGCAGCCACCTCAACGTCGGTACCGCAGCAACTTCAATTACCAACGCAGATGCCCAGAAAACCCT  
AAATCACAAAGATGGCAAAGAGACAAAATCAGCCAATCCACCAGCTGAGAATTCGTCTGCTCCCGAGGCTGAGCAG  
GGCGGGGCTGAGTAAATGCCGGCTTACCATCTCTACCATCATCCGGTTTAGTCATCCAACAAGAAGAAATATGAA  
ATTCCAGCAATAAGAAATGAACAAAAGATTGGAGCTGAAGACCTTAAGTGCTTGCTTTTTGCCCGTTGACCAGAT  
AAATAGAACTATCTGCATTATCTATGCAGCATGGGGTTTTTATTATTTTACCTAAATATGTCTCTTTTGGTAA  
TAACAAACGTGTTTTTTTTTAAAAAGCCTTGTTTTTCTCAATACGCCTTTAAAGG

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**FIGURE 2384**

MRRPYGCRPQYSSPPVQGEVMEGADNQGAGEQGRPVQRNMYRGYRPRFRRGPPCQRQPREYGNEDKIKEMRPV  
SSHLNVGTAATSITNADAQKTLNHKMAKRQNPQHQLRIQLLPRLSRAGLSKCRLTISTIIREFSHPTRNMKFQQ

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**FIGURE 2385A**

GGGACCTGGAAGCGCCCCAGCCCCGAGCGATCGCAGATTCTGGCTTTCAAACAAAAGAGGCGCCCCGGGGGGTGG  
GACCGGGACCTCACCCGGTCTCTCGCAGAGTTGCGGGCCGCCGCCCTTCAGCCCCGGCTCTCCGTATGCGCATGA  
GCAGAGGCGCCTCCCTCTGTTCCTCCCAAGGCTAAACTTTCTAATTCCCTTCTTTGGGCTCGGGGGCTCCCGGAG  
CAGGGCGAGAGCTCGCGTGCCTGGAAAGGAAGACGGGAAGAAAGGGCAGGCGGCTCGGCGGGCGTCTTCTCCACT  
CCTCTGCCGCGTCCCCGTGGCTGCAGGGAGCCGGCATGGGGCTTCTCCAGTTGCTAGCTTTCAGTTTCTTAGCCC  
TGTGCAGAGCCCGAGTGCCTGCTCAGGAACCCGAGTTCAGCTACGGCTGCGCAGAAGGCAGCTGCTATCCCGCCA  
CGGGCGACCTTCTCATCGGCCGAGCACAGAAAGCTTTCGGTGACCTCGACGTGCGGGCTGCACAAGCCCGAACCC  
TACTGTATCGTCAGCCACTTGCAGGAGGACAAAAATGCTTCATATGCAATTCCCAAGATCCTTATCATGAGACC  
CTGAATCCTGACAGCCATCTCATTGAAAAATGTGGTCACTACATTTGCTCCAAACCGCCTTAAGATTGGTGGCAA  
TCTGAAAATGGTGTGGAAAATGTAACATATCCAACCTGGATTTGGAAGCAGAATTCCATTTTACTCATCTCATAATG  
ACTTTCAAGACATTCCGTCCAGCTGCTATGCTGATAGAACGATCGTCCGACTTTGGGAAAACCTGGGGTGTGTAT  
AGATACTTCGCCTATGACTGTGAGGCCCTCGTTTCCAGGCATTTCAACTGGCCCCATGAAAAAGTCGATGACATA  
ATTTGTGATTCTCGATATTCTGACATTGAACCTCAACTGAAGGAGAGGTGATATTTCTGTCTTTAGATCCTGCT  
TTCAAATAGAAGATCCTTATAGCCCAAGGATACAGAATTTATTAATAATTACCAACTTGAGAATCAAGTTTGTG  
AAACTGCATACTTTGGGAGATAACCTTCTGGATTCCAGGATGGAAATCAGAGAAAAGTATTATTATGCAGTTTAT  
GATATGGTGGTTTCGAGGAAATTGCTTCTGCTATGGTCATGCCAGCGAATGTGCCCTGTGGATGGATTCAATGAA  
GAAGTGAAGGAATGGTTTCACGGACACTGCATGTGCAGGCATAACACCAAGGGCTTAAACTGTGAACCTCTGCATG  
GATTTCTACCATGATTTACCTTGGAGACCTGCTGAAGGCCGAAACAGCAACGCCTGTAAAAAATGTAACCTGCAAT  
GAACATTCCATCTCTTGTCACTTTGACATGGCTGTTTACCTGGCCACGGGGAACGTGAGCGGAGGCGTGTGTGAT  
GACTGTGAGCACAACACCATGGGGCGCAACTGTGAGCAGTGCAAGCCGTTTTACTACCAGCACCCAGAGAGGGAC  
ATCCGAGATCCTAATTTCTGTGAACGTATGTACGTGTGACCCAGCTGGCTCTCAAATGAGGGAATTTGTGACAG  
CTATACTGATTTTTCTACTGGTCTCATTGCTGGCCAGTGTGCGGTGTAAATTAAATGTGGAAGGAGAACATTGTGA  
TGTTTGCAAAGAAGGCTTCTATGATTTAAGCAGTGAAGATCCATTTGGTTGTAAATCTTGTGCTTGCAATCCTCT  
GGGAACAATTCCTGGAGGGAATCCTTGTGATTCCGAGACAGGTCAGTCTGCTACTGCAAGCGTCTGGTGACAGGACA  
GCATTGTGACCAAGTGCCTGCCAGAGCACTGGGGCTTAAGCAATGATTTGGATGGATGTGACCATGTGACTGTGA  
CCTTGGGGGAGCCTTAAACAACAGTTGCTTTGCGGAGTCAGGCCAGTGTCTATGCCGCGCTCACATGATTGGACG  
TCAGTGCAACGAAGTGAACCTGGTTACTACTTTGCCACCCTGGATCACTACCTCTATGAAGCGGAGGAAGCCAA  
CTTGGGGCCTGGGGTTAGCATAGTGGAGCGGCAATATATCCAGGACCGGATTCCCTCCTGGACTGGAGCCGGCTT  
CGTCCGAGTGCCTGAAGGGGCTTATTTGGAGTTTTTTCATTGACAACATACCATATTCCATGGAGTACGACATCCT  
AATTCGCTACGAGCCACAGCTACCCGACCACTGGGAAAAAGCTGTCTATCACAGTGCAGCGACCTGGAAGGATTCC  
AACCAGCAGCCGATGTGGTAATACCATCCCCGATGATGACAACCAGGTGGTGTCTATTATCACCAGGCTCAAGATA  
TGTCTGCTCTTCTCGGCCGGTGTGCTTTGAGAAGGGAACAACTACACGGTGAGGTGGAGCTGCCTCAGTACAC  
CTCCTCTGATAGCGACGTGGAGAGCCCCTACACGCTGATCGATTCTTGTCTCATGCCATACTGTAAATCACT  
GGACATCTTCACCGTGGGAGGTTTCAAGAGATGGGGTGGTCAACACAGTGCCTGGGAAACCTTTAGAGATACCG  
ATGTCTAGAGAACAGCAGAAGCGTTGTGAAAACACCGATGACAGATGTTTGCAGAAACATCATCTTTAGCATTTT  
TGCCCTGTTACACCAGACAGGCCTGGCTTGTGAATGCGACCCCTCAGGGTTTCGTTAAGTTCCGTGTGTGATCCAA  
CGGAGGCCAGTGCCAGTGCCGGCCCCAACGTGGTTGGAAGAACCTGCAACAGATGTGCACCTGGAACCTTTTGGCTT  
TGGCCCCAGTGGATGCAACCTTGTGAGTGCCATCTGCAAGGATCTGTCAATGCCTTCTGCAATCCCGTCACTGG  
CCAGTGCCACTGTTTCCAGGGAGTGTATGCTCGGCAGTGTGATCGGTGCTTACCTGGGCAGTGGGGCTTTCCAAG  
TTGCCAGCCCTGCCAGTGCAATGGCCACGCCGATGACTGCGACCCAGTGACTGGGGAGTGTGTAAGTGGCAGGA  
CTACACCATGGGTGATAACTGTGAAAGGTGCTTGGCTGGTTACTATGGCGACCCCATCATTGGGTGAGGAGATCA  
CTGCCGCCCTTGCCCTTGCCAGATGGTCCGACAGTGGACGCCAGTTTGGCAGGAGCTGCTACCAAGATCCTGT  
TACTTTACAGCTTGCTGTGTTTGTGATCCTGGATACATTGGTTCCAGATGTGACGACTGTGCCTCAGGATACTT  
TGGCAATCCATCAGAAGTTGGGGGGTCTGTGTAGCCTTGCCAGTGTGACAACAACATTGACACGACAGACCCAGA  
AGCCTGTGACAAGGAGACTGGGAGGTGTCTCAAGTGCCTGTACACACCGGAAGGGGAACACTGTGAGTTCTGCCG  
GTTTGGATACTATGGTGTGATGCCCTCCAGCAGGACTGTGAAAGTGTGTCTGTAATTACCTGGGCACCGTGAAGA  
GCACTGTAAACGGCTCTGACTGCCAGTGCGACAAAGCCACTGGTTCAGTGTCTTGTGTCTTCTAATGTGATCGGGCA  
GAACTGTGACCGCTGTGCGCCCAATACCTGGCAGCTGGCCAGTGGCACTGGCTGTGACCCATGCAACTGCAATGC

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**FIGURE 2385B**

TGCTCATTCTTCGGGCCATCTTGCAATGAGTTCACGGGGCAGTGCCAGTGCATGCCTGGGTTTGGAGGCCGCAC  
CTGCAGCGAGTGCCAGGAACCTCTCTGGGGGAGACCCCGACGTGGAGTGCCGAGCCTGTGACTGTGACCCAGGGG  
CATTGAGACGCCACAGTGTGACCAGTCCACGGGGCAGTGTGTCTGCGTTGAGGGTGTGAGGGTCCACGCTGTGA  
CAAGTGCACGCGAGGGTACTCGGGGGTCTTCCCTGACTGCACACCCTGCCACCAGTGCTTTGCTCTCTGGGATGT  
GATCATTGCCGAGCTGACCAACAGGACACACAGATTCTTGAGAAAGCCAAGGCCTTGAAGATCAGTGGTGTGAT  
CGGGCCTTACCGTGAGACTGTGGACTCGGTGGAGAGGAAAGTCAGCGAGATAAAAGACATCCTGGCGCAGAGCCC  
CGCAGCAGAGCCACTGAAAAACATTGGGAATCTCTTTGAGGAAGCAGAGAACTGATTAAGATGTTACAGAAAT  
GATGGCTCAAGTAGAAGTGAAATTATCTGACACAACCTTCCCAAAGCAACAGCACAGCCAAAGAACTGGATTCTCT  
ACAGACAGAAGCCGAAAGCCTAGACAACACTGTGAAAGAACCTTGCTGAACAACCTGGAATTTATCAAAAACTCAGA  
TATTCGGGGTGCTTGGATAGCATTACCAAGTATTTCCAGATGTCTCTTGAGGCAGAGGAGAGGGTGAATGCCTC  
CACCACAGAACCCAAACAGCACTGTGGAGCAGTCAGCCCTCATGAGAGACAGAGTAGAAGACGTGATGATGGAGCG  
AGAATCCCAGTTCAAGGAAAAACAAGAGGAGCAGGCTCGCCTCCTTGATGAAGTGGCAGGCAAGCTACAAAGCCT  
AGACCTTTCAGCCGCTGCCGAAATGACCTGTGGAACACCCCGAGGGCCTCCTGTTCCGAGACTGAATGTGGCGG  
GCCAAACTGCAGAACTGACGAAGGAGAGAGGAAGTGTGGGGGGCCTGGCTGTGGTGGTCTGGTTACTGTTGCACA  
CAACGCCTGGCAGAAAGCCATGGACTTGGACCAAGATGTCCTGAGTGCCCTGGCTGAAGTGAACAGCTCTCCAA  
GATGGTCTCTGAAGCAAACTGAGGGCAGATGAGGCAAAACAAAGTGCTGAAGACATTCTGTTGAAGACAAATGC  
TACCAAAGAAAAAATGGACAAGAGCAATGAGGAGCTGAGAAATCTAATCAAGCAAATCAGAACTTTTTGACCCA  
GGATAGTGCTGATTTGGACAGCATTGAAGCAGTTGCTAATGAAGTATTGAAAATGGAGATGCCTAGCACCCCA  
GCAGTTACAGAACTTGACAGAAGATATACGTGAACGAGTTGAAAGCCTTTCTCAAGTAGAGGTTATTCTTCAGCA  
TAGTGCTGCTGACATTGCCAGAGCTGAGATGTTGTTAGAAGAAGCTAAAAGAGCAAGCAAAAGTGCAACAGATGT  
TAAAGTCACTGCAGATATGGTAAAGGAAGCTCTGGAAGAAGCAGAAAAGGCCAGGTGCGCAGCAGAGAAGGCAAT  
TAAACAAGCAGATGAAGACATTCAAGGAACCCAGAACCTGTTAACCTCGATTGAGTCTGAAACAGCAGCTTCTGA  
GGAAACCTTGTTCAACGCGTCCCAGCGCATCAGCGAGTTAGAGAGGAATGTGGAAGAACTTAAGCGGAAAAGCTGC  
CCAAAACCTCCGGGGAGGCAGAATATATTGAAAAAGTAGTATATACTGTGAAGCAAAGTGCAAGATGTTAAGAA  
GACTTTAGATGGTGAACCTTGATGAAAAGTATAAAAAAGTAGAAAATTTAATTGCCAAAAAACTGAAGAGTCAGC  
TGATGCCAGAAGGAAAGCCGAAATGCTACAAAATGAAGCAAAACTCTTTTAGCTCAAGCAAAATAGCAAGCTGCA  
ACTGCTCAAAGATTTAGAAAGAAAATATGAAGACAATCAAAGATACTTAGAAGATAAAGCTCAAGAATTAGCAAG  
ACTGGAAGGAGAAGTCCGTTCACTCCTAAAGGATATAAGCCAGAAAGTTGCTGTGTATAGCACATGCTTGTAACA  
GAGGAGAATAAAAAATGGCTGAGGTGAACAAGGTAAAACACTACATTTTAAAAACTGACTTAATGCTCTTCAAA  
ATAAAACATCACCTATTTAATGTTTTTAATCACATTTTGTATGGAGTTAAATAAAG

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**FIGURE 2386**

CTCTTTTTCCGGCTGGAACCATGGTGGGTGTAGAAGAGAAGAAGAAGGTTCTGCTGTGCCAGAAACCCTTAAGA  
AAAAGCGAAGGAATTTCTCAGAGCTGAAGATGAAGCGCCTGAGAAAGAAGTTTGCCCAAAAGATGCTTCGAAAGG  
CAAGGAGGAAGCTTATCTATGAAAAAGCAAAGCACTATCACAGGGAATATAGGCAGATGTACAGAACTGAAATTC  
GAATGGCGAGGATGGCAAGAAAAGCTGGCAACTACTTTGTACCTGCAGAACCCAAACTGGCATTGTGCATCAGAA  
TCAGAGGTATCAGTGGCGTGAGCCCAAAGGTCCGAAAGGTGTTGCAGCTTCTTCGCCTTCGTCAAATCTACAATG  
GAACCTTTGTGAAGCTCAACAAGGCTTCGACTAACATGCTGAGGATTGTAGAGCCATATATTGCATGGGGGTACC  
CCAATCTGAAGTCAGTAAATGAACTAATCTACAAGAGTGGTTATGGCAAAATCAATAAGAAGCGAATTGCTTTGA  
CAGATAACGCTTTGATTGCTCGATCTCTTGGTAAATATGGCATCATCTGCATGGAGGATCTGATTCATGAGATCT  
ATACTGTTGGAAAACGCTTCAAAGAGGCAAATAACTTCCTGTGGCCCTTCAAATTGTCTTCTCCACGAGGTGGAA  
TGAAGAAAAAGACCACCCATTTTGTAGAAGGTGGAGATGCTGGCAACAGGGAGGACCAGATCAACAGGCTTATTA  
GAAGAATGAACTAAGGTGTCTACCATGACTATTTCTCTAAGCTGGTTGGTTAATAAACAGTACCTGCTCTCAAAT  
TGG

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**FIGURE 2387**

CTTCCTAGAAGGTAATGTTACGAACTCGTCTCCAAAGGATACTTAGGTTGCACCAGTGTATTTGTAAAACAGGAGC ,  
AAATTTGGACCTTGCCGGGCCAAAGTCGTGTACGTGGAACCTCTTAATCTCAGCATCCGGAGCTCCAGGAAGGG  
AAAATTTCAAGTCAGATAGAATTCTATATATACCATTTCTAGGAACCTTCAGCCCTCAAGATTCCAACATCATGA  
CCTCAGTTTCAACACAGTTGTCCCTTAGTCCTCATGTCACTGCTTTTGGTGCTGCCTGTTGTGGAAGCAGTAGAAG  
CCGGTGATGCAATCGCCCTTTTGTAGGTGTGGTTCTCAGCATTACAGGCATTTGTGCCTGCTTGGGGGTATATG  
CACGAAAAAGAAATGGACAGATGTGACTTTGAAAGGCTACTGAGTCAAACCTCACCTGAAAACCTTTGCGCTT  
TAGAGGCTAAACCTGAGATTTGGTGTGTGAAAGGTTCCAAGAATCAGTAAATAAGGGAGTTTCACATTTTTCATT  
GTTTCCATGAAATGGCAACAAACATACATTTATAAATTGAAAAAAAATGTTTTCTTTACAACAAATAATGCACA  
GAAAAATGCAGCCTATAATTTGCTAGTTAGGTAGTCAAAGAAGTAAGATGGCTGAAATTTACATAAGTAATATTT  
CATAATCTTAGAATTCCTCTCAAAGCATGTGAAATAGGAAGAAGGAAGTTCTTGCCCAGAATCTTAGGAAATCACC  
ACTGTTTCGGTTATAATCACTGCCCTCCTGAATCGTTGAGGAGTCTTTTAAATTAGATTTTGTGTTTGTGTCTCCC  
AAGTTAATATTATATTTAGATATCAGAGAGTCAGGCAAAAAGGAAAACTTTATCTCTAGGGAAAAAACATTTAG  
AAAAATGTATTCAGTGTATCTAATACTGAAATGCGGAAAAAAATTTAATGTTAAAAAAAACCTATAGACATTGAC  
ATGGAAGAGATTTAATGTTTTGAAAAAAACCTTTATATTAAGTGAACATCCTCCTGATGAGAAGTACTAT  
ATTAAATATAAACCCATTATGTTAT

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**FIGURE 2388**

MYELVSKGYLGCTSVFVKQEQIWTLPGQSRVTWNLLISASGAPGRENFKSDRILYIPFLGTFSPQDSNIMTSVST  
QLSLVLSLLLVLPPVEAVEAGDAIALLLGVVLSITGICACLGVIYARKRNGQM

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**FIGURE 2389**

GAGTGGCTGTTGAGCGGCGCCGCGGGAGTTCCGCAGGTTTCCCGTGTTGCGAGCGGAGCCGGAGGCCAGCTGAAC  
CCGGCCGTGGGATCCCGGATAGGAGGAGGAGGGGACCCATAGGACGCGTTAACATGGACCTGGAAAACAAAGTGA  
AGAAGATGGGCTTAGGTCACGAGCAAGGATTTGGAGCCCCCTTGTTTAAATGCAAAGAAAAATGTGAAGGATTCCG  
AACTGCACCTTCTGGAGAAAAATATGTGCTAACTGCAAGTGTGGCCAAGAAGAGCATGATGTCCTCTTGAGCAATG  
AAGAGGATCGAAAAGTGGGAAAACCTTTTTGAAGACACCAAGTATACCACTCTGATTGCAAACTAAAGTCAGATG  
GAATTCCTCATGTATAAACGCAATGTTATGATATTGACGAATCCAGTTGCTGCCAAGAAGAATGTCTCCATCAATA  
CAGTTACCTATGAGTGGGCTCCTCCTGTCCAGAATCAAGCAATTGGCCAGGCAGTACATGCAGATGCTACCCAAGG  
AAAAGCAGCCAGTAGCAGGCTCAGAGGGGGGCACAGTACCGGAAGAAGCAGCTGGCAAAGCAGCTCCCTGCACATG  
ACCAGGACCCCTCAAAGTGCCATGAGTTGTCTCCAGAGAGGTGAAGGAGATGGAGCAGTTTGTGAAGAAATATA  
AGAGCGAAGCTCTGGGAGTAGGAGATGTCAAACCTCCCTGTGAGATGGATGCCAAGGCCCCAAACAAATGAACA  
TTCTTGAGGGGATAGAAGCACCCAGCAGCAGTGGGGGCCATGGAGGACAAATCTGCTGAGCACAAAAGAACTC  
AATATTCCTGCTATTGCTGCAAACCTGAGTATGAAAGAAGGTGACCCAGCCATCTATGCCGAAAGGGCTGGCTATG  
ATAAACTGTGGCACCAGCTTGTTTTGTCTGCAGCACCTGCCATGAACCTCTGGTTGACATGATTTATTTTTTGA  
AGAATGAGAAGCTATACTGTGGCAGACATTACTGTGACAGCGAGAAACCCCGATGTGCTGGCTGTGACGAGCTGA  
TATTCAGCAATGAGTATACCCAGGCAGAAAACCAAGTGGCACCTGAAACACTTCTGCTGCTTTGACTGTGATA  
GCATTCTAGCTGGGGAGATATACGTGATGGTCAATGACAAGCCCGTGTGCAAGCCCTGCTATGTGAAGAATCACG  
CTGTGGTGTGTCAAGGATGCCACAATGCCATCGACCCAGAAGTGCAGCGGGTGACCTATAACAATTTAGCTGGC  
ATGCATCCACAGAGTGCTTTCTGTGCTCTTGCTGCAGCAAATGCCTCATTGGGCAGAAGTTCATGCCAGTAGAAG  
GGATGGTTTTCTGTTCAAGTGAATGTAAGAAGAGGATGTCTTAGGAGGAGGGCACCCAGAAGTATCGAGCCATAG  
CTATCCAAAGTGGTCTGCATTTCTACTGTAAATGCAATTTGAAAAAATAAAACGCAAAAAAGAACTGTAA  
GGAAACCAAGAGATTTTGTTTAATTTTTTGGCCATTTTTCTTCATCAATTTTTTTTGGTCTCAACTTTTTAA  
CTTGGTTTAAGCATTTGATTTGTAAACAGTAAATAATTGTATCTTTCCATAGCTTTTCAAATGTGAAATCATTT  
TTGGAAGCTTGGATCTCATTAAACTTCATGTCTCTATTCCATTTGTGCCACACACTTAAAAGTTAGTGTACTGAA  
TGGAAGATGAGCATTCTAGTTCTACACTTCTTTTTTCCCCCTCATGTGTAAATGAAAAGAAAACATAAATTTG  
CCCTAATACCAAGGCGCTACGTTTATTGCCTCGTCTTATTCAGTACCTTTGTAATGATACACAGTGAATCTTT  
TTGACAAAGAGAAATGCAGTGTAGTATGCAGAGCTGCTGTTTTAATGCCTATGCATTTACTCTTTCTGATTTAG  
GCAGAGGTGGCATTCTTTTATTGCATTTCTCTATTTTTTAAATGTACCCTACCTTCAGTATTCTCTTTGTAAGT  
TGGTGAAGTGCATCTGTGGCCTTGAATATTTTATTATCACATGTGGCATAACAGTATCCACACTTTTTAGTTCTT  
TATTTTTTTTTTTTTTATTTTGAAGCAATTCTCCTGCCTCAGCCTCCCAAATAGCTGGGATTACAGGTGCATGCCAC  
CACACCCAGCTAATTTTTGTATTTTTAGTAGAGACAGGTTTTCACCATGTTAGCCAGGCTGGTCTCAAACCTCCTG  
ACCTCAGATGATCCGCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGTGTGGGAGCCACCATGCCTGACCCA  
CACACTTTTTACTTGTATAGATGATTTTTTGGCTTGGACATAAAAGCCAAGCCACCCATTTGCTTTTAATCCAAAG  
AACATGTATAGTTTTTGTACCCAGAGACTATGATTTATATTGATTGCACTTGCCTGCCATGATTTAGATAAGATT  
TTTTTGCATGGTTTTTATTCTTTCTAATGGATCCTGTTTATAATACTTCCAAGCCTGTCCATGGATATATCA  
AATGTCTTCACTTGTATATTTTATGGCTAGGATTTCTAATGTTTATTCTTCCCTGTGTACTTCTACACATAGC  
TATGCACTATGAAAATTAAATGGAATGAATGATATGTATATTACTCAAATAAAGTTTCTTTCACTTT



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**FIGURE 2390**

MDLENKVKKMGLGHEQFGAPCLKCKEKCCEGFELHFWRKICRNCKCGQEEHDVLLSNEEDRKVGKLFEDTKYTTL  
IAKLKSDGIPMYKRNVMLTNPVAAKKNVSINTVTYEWAPPVQNQALARQYMQLPKKQPVAGSEGAQYRKKQL  
AKQLPAHDQDPSKCHELSPREVKEMEQFVKKYKSEALGVGDVKLPCEMDAQGPKQMNIPGGDRSTPAAVGAMEDK  
SAEHKRTQYSCYCCKLSMKEGDPAIYAERAGYDKLWHPACFVCSTCHELLVDMIYFWKNEKLYCGRHYCDSEKPR  
CAGCDELIFSNEYTQAEQNWNHLKHFFCCFDCDSILAGEIYVMVNDKPVCKPCYVKNHAVVCQGCHNAIDPEVQRV  
TYNNFSWHASTECFLSCCSKCLIGQKFMPEGMVFCSVECKKRMS

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**FIGURE 2391**

GGGAGAAACGTTCTCACTCGCTCTCTGCTCGCTGCGGGCGCTCCCCGCCCTCTGCTGCCAGAACCTTGGGGATGT  
GCCTAGACCCGGCGCAGCACACGTCCGGGGCCAACCGCGAGCAGAACAAACCTTTGGCGGGCGGCCAGGAGGCTCC  
CTCCCAGCCACCGCCCCCTCCAGCGCCTTTTTTTCCCCCATACAATACAAGATCTTCCTTCCTCAGTTCCCTT  
AAAGCACAGCCCAGGGAAACCTCCTCACAGTTTTTCATCCAGCCACGGGGCCAGCATGTCTGGGGGGCAAATACGTAG  
ACTCGGAGGGACATCTCTACACCGTTCCCATCCGGGAACAGGGCAACATCTACAAGCCCAACAACAAGGCCATGG  
CAGACGAGCTGAGCGAGAAGCAAGTGTACGACGCGCACACCAAGGAGATCGACCTGGTCAACCGCGACCCTAAAC  
ACCTCAACGATGACGTGGTCAAGATTGACTTTGAAGATGTGATTGCAGAACCAGAAGGGACACACAGTTTTGACG  
GCATTTGGAAGGCCAGCTTCACCACCTTCACCTGTGACGAAATACTGGTTTTACCGCTTGCTGTCTGCCCTCTTTG  
GCATCCCGATGGCACTCATCTGGGGCATTACTTCGCCATTCTCTCTTTCTGCACATCTGGGCAGTTGTACCAT  
GCATTAAGAGCTTCCTGATTGAGATTGAGTGCATCAGCCGTGTCTATTCCATCTACGTCCACACCGTCTGTGACC  
CACTCTTTGAAGCTGTTGGGAAAATATTAGCAATGTCCGCATCAACTTGCAGAAAGAAATATTAAATGACATTTT  
AAGGATAGAAGTATACCTGATTTTTTTTCTTTTAATTTTCTGGTGCCAATTTCAAGTTCCAAGTTGCTAATAC  
AGCAACAATTTATGAATTGAATTATCTTGGTTGAAAATAAAAAGATCACTTTCTCAGTTTTTCATAAGTATTATGT  
CTCTTCTGAGCTATTTTATCTATTTTTGGCAGTCTGAATTTTTTAAAACCCATTTAAATTTTTTCTTACCTTTT  
TATTTGCATGTGGATCAACCATCGCTTTATTGGCTGAGATATGAACATATTGTTGAAAGGTAATTTGAGAGAAAT  
ATGAAGAACTGAGGAGGAAAAAAAAAAAAAAAAAGAAAGAACCAACAACCTCAACTGCCTACTCCAAAATGTTGGTC  
ATTTTATGTTAAGGGAAGAATTCAGGGTATGGCCATGGAGTGTACAAGTATGTGGGCAGATTTTCAGCAAACCTC  
TTTTCCCACTGTTTAAGGAGTTAGTGGATTACTGCCATTCACTTCATAATCCAGTAGGATCCAGTGATCCTTACA  
AGTTAGAAAACATAATCTTCTGCCTTCTCATGATCCAATAATGCCTTACTCTTCTTGAAATTTTAACTATGAT  
ATTTTCTGTGCCTGAATATTTGTTATGTAGATAACAAGACCTCAGTGCCTTCTGTTTTTCACATTTTCTTTTTC  
AAATAGGGTCTAACTCAGCAACTCGCTTTAGGTGAGCAGCCTCCCTGAAGACCAAAATTAGAATATCCATGACCT  
AGTTTTCCATGCGTGTCTGACTCTGAGCTACAGAGTCTGGTGAAGCTCACTTCTGGGCTTCATCTGGCAACAT  
CTTTATCCGTAGTGGGTATGGTTGACACTAGCCCAATGAAATGAATTAAGTGGACCAATAGGGCTGAGCTCTCT  
GTGGGCTGGCAGTCTGGAAGCCAGCTTTCCCTGCCTCTCATCAACTGAATGAGGTGAGCATGTCTATTAGCTT  
CGTTTTATTTTCAAGAATAATCACGCTTTCCCTGAATCCAACTAATCCATCACCGGGGTGGTTTAGTGGCTCAACA  
TTGTGTTCCCATTTTCACTGATCAGTGGGCCTCCAAGGAGGGGCTGTAAAATGGAGGCCATTGTGTGAGCCTATC  
AGAGTTGCTGCAAACCTGACCCCTGCTCAGTAAAGCACTTGCAACCGTCTGTTATGCTGTGACACATGGCCCCCTC  
CCCCTGCCAGGAGCTTTGGACCTAATCCAAGCATCCCTTTGCCAGAAAGAAGATGGGGGAGGAGGCAGTAATAA  
AAAGATTGAAGTATTTTGTCTGGAATAAGTTCAAATCTTCTGAACTCAAACCTGAGGAATTTACCTGTAAACCTG  
AGTCGTACAGAAAGCTGCCTGGTATATCCAAAAGCTTTTTTATTCCTCTGCTCATATTGTGATTCTGCCTTTGGG  
GACTTTTCTTAAACCTTCAGTTATGATTTTTTTTTTATACACTTATTGGAACCTCTGCTTGATTTTGCCTCTTCC  
AGTCTTCTGACACTTTAATTACCAACCTGTTACCTACTTTGACTTTTTGCATTTAAACAGACACTGGCATGGA  
TATAGTTTTACTTTTAACTGTGTACATAACTGAAAATGTGCTATACTGCATACTTTTTAAATGTAAAGATATTT  
TTATCTTTATATGAAGAAAATCACTTAGGAAATGGCTTTGTGATTCAATCTGTAAACTGTGTATTCCAAGACATG  
TCTGTTCTACATAGATGCTTAGTCCCTCATGCAAATCAATTACTGGTCCAAAAGATTGCTGAAATTTTATATGCT  
TACTGATATATTTTACAATTTTTTATCATGCATGTCTGTAAAGGTTACAAGCCTGCACAATAAAAATGTTTAAAC  
GGTT

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**FIGURE 2392**

MSGGKYVDSEGHLYTVPIREQGNIYKPNNKAMADELSEKQVYDAHTKEIDLVRDPKHLNDDVVKIDFEDVIAEP  
EGTHSFDGIWKASFTTFTVTKYWFYRLLSALFGIPMALIWGIYFAILSFLHIWAVVPCIKSFLIEIQCISRVYSI  
YVHTVCDPLFEAVGKIFSNVRINLQKEI

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**FIGURE 2393**

TTTGTGCCAGAAGGAAGATGCGGATCTGGAGGAGCAGTTGTCTGATGAAGAGAAGGTGCGTATAGCAGCAAAA  
TTCATCATTTCATGCCCCCTCCTGGAGAATTTAATGAGGTTTTCAATGATGTTTCGGTTACTGCTTAATAATGACAAT  
CTTCTCAGGGAAGGAGCAGCCCATGCATTTGCACAGTATAACTTGGACCAGTTTACTCCAGTAAAAATTGAAGGT  
TATGAAGATCAGGTATTGATAACAGAACATGGCGACTTGGGAAATGGAAAGTTTTTGGATCCAAAGAACAGAATC  
TGTTTTAAATTTGATCACTTAAGGAAGGAGGCAACTGATCCAAGACCCTGTGAAGTAGAAAAATGCAGTTGAATCA  
TGGAGAACTTCAGTAGAAACTGCTCTGAGAGCTTACGTAAAAGAACATTACCCGAATGGAGTCTGCACTGTGTAT  
GGCAAAAAAATAGATGGACAGCAAACCATTTATTGCATGCATAGAAAGCCATCAGTTCCAAGCAAAAAATTTTGG  
AATGGTCGTTGGAGGTCAGAAATGGAAGTTTACAATCACTCCTTCAACCACTCAAGTGGTTGGCATCTTGAAAATT  
CAGGTTTCATTATTATGAAGATGGTAATGTTTCAGCTAGTGAGTCATAAAGATATACAAGATTCCCTAACAGTGTCT  
AATGAAGTGCAAACAGCAAAAAGAATTTATAAAGATTGTAGAAGCTGCAGAAAATGAATACCAGACTGCCATCAGT  
GAGAATTATCAGACAATGTCGGACACTACTTTCAAAGCCTTACGTCGACAGTTGCCAGTTACACGCACTAAGATT  
GATTGGAACAAGATCCTTAGCTACAAGATTGGCAAAGAGATGCAGAATGCATTAAGATGAACATTGCATGACCGGA  
TCATTTTAGTGTCTTTGC

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**FIGURE 2394**

MADLEEQLSDEEKVRIAAKFIIHAPPGEFNEVFNDVRLLLNNDNLLREGAAHAFQAYNLDQFTPVKIEGYEDQVL  
ITEHGDLGNGKFLDPKNRICFKFDHLRKEATDPRPCEVENAVESWRTSVETALRAYVKEHYPNGVCTVYGKKIDG  
QQTIIACIESHQFQAKNFWNGRWRSEWKFTITPSTTQVVGILKIQVHYEDGNVQLVSHKDIQDSLTVSNEVQTA  
KEFIKIVEAAENEYQTASENYQTMSDTTFKALRRQLPVTRTKIDWNKILSYKIGKEMQNA

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**FIGURE 2395**

CTCTCCGGTCCGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAGGGCCGCGGCCACGT  
GCAACCTGTTTCGCTGTACTAACTGTGCCCCGATGCGTGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTCGAAA  
CATAGTGGAGGCCGTAGCAGTCAGGGACATTTCTGAAGCAAGCGTCTTCGATGCCTATGTGCTTCCCAAGCTGTA  
TGGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCGCAA  
GGACCGAACACCCCCACCCAGATTTAGACCTGCGGGTGCTGCCCCACGTCCCCACCAAAGCCCATGTAAGGAGC  
TGAGTTCTTAAAGACTGAAGACAGGTTATTCTCTGGAGAAAAATAAAATGGAAATTGTA

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**FIGURE 2396**

TGGAGCTAAGCTGTTTCCAGGGTGACAGAGTGGCGACCTCGGTGGTCGATTGAGCAGGTCTGAGAATTGTTCCCA  
AAGGGTTGTGCGTCACCGAGTCGTTGGCGCTGTCATCGCGGGTGTGCTGAAGAAGACCACTGGCCTTGTGGGATT  
GGCTGTGTGCAATACTCCTCACGAGAGGCTAAGAATATTGTACACAAAGATTCTTGATGTTCTTGAGGAAATCCC  
TAAAAATGCAGCATATAGAAAGTATACAGAACAGATTACAAATGAGAAGCTGGCTATGGTTAAAGCGGAACCAGA  
TGTTAAAAAATTAGAAGACCAACTTCAAGGCGGTCAATTAGAAGAGGTGATTCTTCAGGCTGAACATGAACTAAA  
TCTGGCAAGAAAAATGAGGGGAATGGAACTATGGGAGCCATTAGTGGAAGAGCCTCCTGCCGATCAGTGGAATG  
GCCAATATAATTATTAAAGTGAATTTGGTGTGTTTCATGGGAACTGATGTAATTAAATATTCTGTTATATTAAGAG  
CGTGTTCCTTATTACTGACATTTTGTAAATCAAGAAAAGTGATATAGAAAATATGTAGGAGACTGTTAAAATTGGTG  
ATTATGGTAATATGGTCATGTGAATCAATTTTTGATTTATAAAGTACTCACACAAGTTGTTTCAAAGATGATATT  
TCTGTGAACAGAGAGGCCATGGGAAGATTTGAAAATTATTAAAGAAAAATTCCTACAGATTTTCAATGCAGAGAC  
CATAATCAAAAAGTAAACTTTCTTTAGTAGTATGTTCAATACATCATTTAATTTTTTAAGTTATCCTGAAGAAGG  
AAAGGTCCTTAATTATTATAGTCTAAACAAATTTATAGATTACTGTTTGAAGTAAATAATACGAGTGAATATTTT  
CAAATGTGATAAAATAGCACAAAGTGGCTGGTGATAAAATTTGAAATTATGGTTAACCTCAGCTGTGATCTTATGT  
ATGTAAAGTGAAATTTAAATAGATAATTATAGGTTGATTACAAAATCCATAGTGTCATTTTATTTTAGTCATTAT  
TGAATTATACCATTTACTCTGTTTTCTTATAGTCTTAATTTTATTATATTTTGTGTTACTGTATTATATTTGAA  
AACCTTCAAATTAGAATACATTGTACAGTTAAAGAAATTGACTTGGTACTTAAAAGAAAGATTCCCATTCGATA  
CAGGTTATTGGAGAAATTTTCCTTTTGTGTCATTTGTGGAAGTTAGTTTTCTGGCCCGTGGCCTTTAATTTTCTT  
AATCAACCTAATTACATCAGGATAGAGGTAGAGTTTCTGTAAAAGAAGAGACATTAAGAGTTCCTGAAATTTATA  
TCTGGCATACCGATAGGCTTATATTCAAACATCTTAGTCATACGACCATAAATTAAGTGGAGTCACTAAATA  
GTTTGCAGTACGTTTCTAATATAAGTGTAGGTGGGTATCAAACAAGACAAATGCTGTTTCAGGGAAAGAAGTTGG  
CAAGCTTAAGGTTAAACAAAAATAAAATTACATGTGTTTTCGCCTTCCTA

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**FIGURE 2397**

MAGVLKKTGLVGLAVCNTPHERLRILYTKILDVLEEIPKNAAYRKYTEQITNEKLAMVKAEPDVKKLEDQLQGG  
QLEEVILQAEHELNLARKMREWKLWEPLVEEPPADQWKWPI



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**FIGURE 2398**

CCGCGTCGGTGCCCGCGCCCCCTCCCCGGGCCCCGCCATGGGCCTCACCGTGTCCGCGCTCTTTTCGCGGATCTTC  
GGGAAGAAGCAGATGCGGATTCTCATGGTTGGCTTGATGCGGCTGGCAAGACCACAATCCTGTACAACTGAAG  
TTGGGGGAGATTGTACCAACCATCCCAACCATAGGCTTCAATGTAGAAACAGTGGAATATAAGAACATCTGTTTC  
ACAGTCTGGGACGTGGGAGGCCAGGACAAGATTCGGCCTCTGTGGCGGCACTACTTCCAGAACACTCAGGGCCTC  
ATCTTTGTGGTGGACAGTAATGACCGGGAGCGGGTCCAAGAATCTGCTGATGAACTCCAGAAGATGCTGCAGGAG  
GACGAGCTGCGGGATGCAGTGCTGCTGGTATTTGCCAACAAGCAGGACATGCCCAACGCCATGCCCCGTGAGCGAG  
CTGACTGACAAGCTGGGGCTACAGCACTTACGCAGCCGCACGTGGTATGTCCAGGCCACCTGTGCCACCCAAGGC  
ACAGGTCTGTACGATGGTCTGGACTGGCTGTCCCACGAGCTGTCAAAGCGCTTAAACCAGCCAGGGGCAGGCCCCCTG  
ATCCCCGGAAGCTCCTGCGTGTCATCCCCGGGATGACCAGACTCCCGGACTCCTCAGGCAGTGCCCTTTCCTCCCA  
CTTTTCCTCCCCCATAGCCACAGGCCTCTGCTCCTGCTCCTGCCTGCATGTTCTCTCTGTGTTGGAGCCTGGAG  
CCTTGCTCTCTGGGCACAGAGGGGTCCACTCTCCTGCCTGCTGGGACCTATGGAAGGGGCTTCCTGGCCAAGGCC  
CCCTCTTCCAGAGGAGGAGCAGGGATCTGGGTTTCCTTTTTTTTTTCTGTTTTGGGTGTACTCTAGGGGCCAGGT  
TGGGAGGGGGAAGGTGAGGGCTTCGGGTGGTGTATAATGTGGCACTGGATCTTGAGTAATAAATTTGCTGTGGT  
TTG

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**FIGURE 2399**

MGLTVSALFSRIFGKKQMRILMVGLDAAGKTTILYKLLGEIVTTIPTIGFNVETVEYKNICFTVWDVGGQDKIR  
PLWRHYFQNTQGLIFVVDSDNRERVQESADELQKMLQEDEL RDAVLLVFANKQDMPNAMPVSELTDKLG LQHLRS  
RTWYVQATCATQGTGLYDGLDWLSHEL SKR

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**FIGURE 2400**

GCGAGTAGAACGTGTGGCGGCGGCGGAGATCGCGTCTCTTTTCGCTCCGTGTCCCGCTGCTGCTCCTGTGAGCGCC  
CGGCGAGTCCGTCCCGTCCACCGTCCGCAGCTGGTAGCCAGCCTGCCCTCGCCTCGACTCCCTTTACCAACAC  
CGACACCCACATTGACACCTCCAGTCCGGCCAGCCGCTCCACTCGTTGCCTTTGCATCTCCACACATGGCGTCCT  
CCGCGCAGAGCGGCGGCTCCTCCGGGGGACCCGCGGTCCCCACCGTGCAGCGGGGCATCATCAAGATGGTCCTCT  
CAGGGTGCGCCATCATTGTCCGAGGTACGCTCGTGGTGGGCCTCCTCCTGAGCGGCAGATCAACCTCAGCAACA  
TTCGTGCTGAAATCTTGCTCGCCGGGCAGCCGCCACACAACCTGATGCAAAGGATACCCCTGATGAGCCCTGGG  
CATTTCAGCTCGAGAGTTCCTTCGAAAGAAGCTGATTGGGAAGGAAGTCTGTTTCACGATAGAAAACAAGACTC  
CCCAGGGGCGAGAGTATGGCATGATCTACCTTGGAAGAGATACCAATGGGGAAAACATTGCAGAATCACTGGTTG  
CAGAGGGCTTAGCCACCCGGAGAGAAGGCATGAGAGCTAATAATCCTGAGCAGAACCGGCTTTTCAGAATGTGAAG  
AACAAGCAAAGGCAGCCAAGAAAGGGATGTGGAGTGAGGGGAACGGTTCACATACTATCCGGGATCTCAAGTATA  
CCATTGAAAACCCAGGCACTTTGTGGACTCACACCACCAGAAGCCTGTTAATGCTATCATCGAGCATGTGCGGG  
ACGGCAGTGTGGTCAGGGCCCTGCTCCTCCAGATTACTACCTGGTTACAGTCATGCTGTCAGGCATCAAGTGCC  
CAACTTTTCGACGGGAAGCAGATGGCAGTGAACTCCAGAGCCTTTTGCTGCAGAAGCCAAATTTTTCTACTGAGT  
CGCGACTGCTTCAGAGAGATGTTTCAGATCATTCTGGAGAGCTGCCACAACCAGAACATTCTGGGTACCATCCTTC  
ATCCAAATGGCAACATCACAGAGCTCCTCCTGAAGGAAGGTTTCGCACGCTGTGTGGACTGGTCGATTGCAGTTT  
ACACCCGGGGCGCAGAAAAGCTGAGGGCGGCAGAGAGGTTTGCCAAAGAGCGCAGGCTGAGAATATGGAGAGACT  
ATGTGGCTCCACAGCTAATTTGGACCAAAGGACAAGCAGTTTGTGCAAGGTGATGCAGGTTCTGAATGCTG  
ATGCCATTGTTGTGAAGCTGAACTCAGGCGATTACAAGACGATTACCTGTCCAGCATCCGACCACCGAGGCTGG  
AGGGGGAGAACACCCAGGATAAGAACAAGAACTGCGTCCCTGTATGACATTCCTTACATGTTTGAGGCCCCGGG  
AATTTCTTCGAAAAAAGCTTATTGGGAAGAAGGTCAATGTGACGGTGGACTACATTAGACCAGCCAGCCAGCCA  
CAGAGACAGTGCCTGCCTTTTCAGAGCGTACCTGTGCCACTGTACCATTTGGAGGAATAAACATTGCTGAGGCTC  
TTGTGAGCAAAGGTCTAGCCACAGTGATCAGATACCGGCAGGATGATGACCAGAGATCATCACACTACGATGAAC  
TGCTTGCTGCAGAGGCCAGAGCTATTAAGAATGGCAAAGGATTGCATAGCAAGAAGGAAGTGCCTATCCACCGTG  
TTGCAGATATATCTGGGGATACCCAAAAGCAAAGCAGTTCTGCTCTTTCTTCAGCGGGCAGGTCGTTCTGAAG  
CTGTGGTGGAAATACGTCTTCAGTGGTTCTCGTCTCAAACCTCTATTTGCCAAAGGAACTTGCCTTATCACCTTCT  
TGCTTGACAGGCATTGAATGCCCCAGAGGAGCCCGAAACCTCCAGGCTTGGTGCAGGAAGGAGAGCCCTTCAGCG  
AGGAAGCTACACTTTTCACCAAGGAACCTGGTGTGTCAGCGAGAGGTGGAGGTGGAGGTGGAGAGCATGGACAAGG  
CCGGCAACTTTATCGGCTGGCTGCACATCGACGGTGCCAACCTGTCCGTCTGCTGGTGGAGCACGCGCTCTCCA  
AGGTCCACTTCACCGCCGAACGCAGCTCCTACTACAAGTCCCTGCTGTCTGCCGAGGAGGCCGCAAAGCAGAAGA  
AAGAGAAGGTCTGGGCCCACTATGAGGAGCAGCCCGTGGAGGAGGTGATGCCAGTGCTGGAGGAGAAGGAGCGAT  
CTGCTAGCTACAAGCCCGTGTGTTGTGACTGAGATCACTGATGACCTGCACTTCTACGTGCAGGATGTGGAGACCG  
GCACCCAGTTGGAGAAGCTGATGGAGAACATGCGCAATGACATTGCCAGTCAACCCCTGTAGAGGGCTCCTATG  
CCCCCGCAGGGGAGAGTTCTGCATTGCCAAATTTGTAGATGGAGAATGGTACCGTGCCCGAGTAGAGAAAGTCG  
AGTCTCCTGCCAAAATACATGTCTTCTACATTGACTACGGCAACAGAGAGGTCTGCCATCCACCCGCTGGGTA  
CCCTATCACCTGCCTTCAGCACTCGGGTGTGCCAGCTCAAGCCACGGAGTATGCCCTTCGCCTTCATCCAGGTGC  
CCCAAGATGATGATGCCCCGACGGACGCCGTGGACAGCGTAGTTCCGGATATCCAGAACACTCAGTGCCTGCTCA  
ACGTGGAACACCTGAGTGCCGGCTGCCCCCATGTACCCCTGCAGTTTGAGATTCCAAGGGCGATGTGGGGCTGG  
GCTTGGTGAAGGAAGGGCTGGTCATGGTGGAGGTGCGCAAGGAGAAACAGTTCCAGAAAGTGATCACAGAATACC  
TGAATGCCAAAGAGTCAGCCAAGAGCGCCAGGCTGAACCTGTGGCGCTATGGAGACTTTTCGAGCTGATGATGCAG  
ACTGCCCTCGTCCAGCTCTCTGTCCAACCTGTGATTATGTGATTTTCTGATACGTCCATTCTCAAATGCCAGT  
GTGTTACATCTTCGCTCTGGCCAGCCCATCTGTATTTAAAGCTTTTGAGGCCCAATAAAATAGTACGTGCTGT  
C

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**FIGURE 2401**

MASSAQSGGSSGGPAVPTVQRGIIKMVLSCAIIVRGQPRGGPPPERQINLSNIRAGNLARRAAATQPDADTPD  
EPWAFPAREFLRKKLIGKEVCFTIENKTPQGREYGMIIYLKGDINGENIAESLVAEGLATRREGMRANNPEQNRLS  
ECEEQAKAAKKGMWSENGSHTIRDLKYTIENPRHFVDSHHQKPVNAIIEHVRDGSVVRALLLPDYLLVTVMLSG  
IKCPTFRREADGSETPEPFAAEAKFFTESRLLQRDVQIILESCHNQNILGTILHPNGNITELLKKEGFARCVDS  
IAVYTRGAEKLRAAERFAKERRLRIRWDYVAPTANLDQKDKQFVAKVMQVLNADAIIVKLNSGDYKTIHLSSIRP  
PRLEGENTQDKNKKLRPLYDIPYMFEAAREFLRKKLIGKKVNVTVDYIRPASPATETVPAFSERTCATVTIGGINI  
AEALVSKGLATVIRYRQDDQQRSSHYDELLAAEARAIIKNGKGLHSKKEVPIHRVADISGDTQKAKQFLPFLQ  
RAGRSEAVVEYVFGSRLKLYLPKETCLITFLLAGIECPRGARNLPGLVQEGEPFSEEATLFTKELVLQREVEVEVES  
MDKAGNFIGWLHIDGANLSVLLVEHALSKVHFTAERSSYYKSLLSAEEAAKQKKEKVWAHYEEQPVEEVMPVLEE  
KERSASYKPVFVTEITDDLHFYVQDVETGTQLEKLMENMRNDIASHPPEGSYAPRRGEFCIAKFVDGEWYRARV  
EKVESPAKIHVFYIDYGNREVLPSTRLGTLSPAFSTRVLPQAQATEYAFAFIQVPQDDDDARTDAVDSVVRDIQNTQ  
CLLNVEHLSAGCPHVTLQFADSKGDVGLGLVKEGLVMVEVRKEKQFQKVITEYLNQESAKSARLNLWRYGDFRA  
DDADCPRPSSLSNC

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**FIGURE 2402**

TCGGAAGGGGCCAGGAGACACTGGAAGGTCCGGACGGCAGGGAAGGGGACGGGGTTCTTTCCAGTCCCACCCGTG  
TAGGGACACCTCTCCCCCTCATCCCCGATGTACCCTCGCTGAATCTGGGATGGGAGAGACGAACCGAGTCTAGG  
CATCTGCGTAGCAGCGCCGGGGAGAGCGGGGAGCCCAGGGCGGAGCCCAGTGGACTCCCGGATTCCCCTGCCCCG  
CCCCCGGCACGAGGCCCCGCCCCGGCGGCCCGCCCCCTCTCGGGACTCGACCGGGCTGCGCTCACTGCCCAGCC  
GGGGCCCCGGGAGCCTCCAGGCTCCCGCCCCGCCCTGAGCTGCGGCCTCCGCATGGAGGGGGCCACTCACTCCACCA  
CCGCTGCAGGGAGGCGGAGCCGCCGCTGTTCCGGAGCCCGGAGCCCCGCAACACCCGGGACACGAGACGGCGGGCG  
CAGCGGTACAGCGCCCCGACTGCTGCAGGCCGGCTACGAGCCCCGAGAGCCCTAGATTGGACCTCGCTACACACCCG  
ACGACACCCCGTTCAAGTATCTTTCAGTGGTCTTACTGGCAGGTGTTGGTGTCCAGATGGATCGCCTTCGCAGG  
GCTAGCATGGCGGACTACCTGATCAGCGCGGCCACCGGCTACGTGCCCCGAGGATGGGCTCACCGCGCAGCAGCTC  
TTCCGACGCGCCGACGGCCTCACCTACAACGACTTCCTGATTCTCCAGGATTCATAGACTTCATAGCTGATGAG  
GTGGACCTGACCTCAGCCCTGACCCGGAAGATCACGCTGAAGACGCCACTGATCTCCTCCCCCATGGACACTGTG  
ACAGAGGCTGACATGGCCATTGCCATGGCTCTGATGGGAGGTATTGGTTTCATTACCACTCACTGCACCCAGAG  
TTCCAGGCCAACGAGGTGCGGAAGGTCAAGAAGTTTGAACAGGGCTTCATCACGGACCCTGTGGTGTGAGCCCC  
TCGCACACTGTGGGCGATGTGCTGGAGGCCAAGATGCGGCATGGCTTCTCTGGCATCCCCATCACTGAGACGGGC  
ACCATGGGCAGCAAGCTGGTGGGCATCGTCACCTCCCGAGACATCGACTTCTTGTGAGAAGGACCACACCACC  
CTCCTCAGTGAGGTGATGACGCCAAGGATTGAAGTGGTGGTGGCTCCAGCAGGTGTGACGTTGAAAGAGGCAAAT  
GAGATCCTGCAGCGTAGCAAGAAAGGGAAGCTGCCTATCGTCAATGATTGCGATGAGCTGGTGGCCATCATCGCC  
CGCACCGACCTGAAGAAGAACCAGACTACCCTCTGGCCTCCAAGGATTCCCAGAAGCAGCTGCTCTGTGGGGCA  
GCTGTGGGCACCCGTGAGGATGACAAATACCGTCTGGACCTGCTCACCCAGGCGGGCGTCGACGTCTAGTCTTG  
GACTCGTCCCAAGGGAATTCGGTGTATCAGATCGCCATGGTGCATTACATCAAACAGAAGTACCCCCACCTCCAG  
GTGATTGGGGGGAACGTGGTGACAGCAGCCAGGCCAAGAACCTGATTGATGCTGGTGTGGACGGGCTGCGCGTG  
GGCATGGGCTGCGGCTCCATCTGCATCACCCAGGAAGTGATGGCCTGTGGTGGCCCCAGGGCACTGCTGTGTAC  
AAGGTGGCTGAGTATGCCCCGCGCTTTGGTGTGCCCCATCATAGCCGATGGCGGCATCCAGACCCTGGGACACGTG  
GTCAAGGCCCTGGCCCTTGGAGCCTCCACAGTGATGATGGGCTCCCTGCTGGCCGCCACTACGGAGGCCCTGGC  
GAGTACTTCTTCTCAGACGGGGTGCGGCTCAAGAAGTACCGGGGCATGGGCTCACTGGATGCCATGGAGAAGAGC  
AGCAGCAGCCAGAAACGATACTTCAGCGAGGGGGATAAAGTGAAGATCGCGCAGGGTGTCTCGGGCTCCATCCAG  
GACAAAGGATCCATTGAGAAGTTCGTGCCCTACCTCATAGCAGGCATCCAACACGGCTGCCAGGATATCGGGGCC  
CGCAGCCTGTCTGTCTTCGGTCCATGATGTACTCAGGAGAGCTCAAGTTTGAGAAGCGGACCATGTGCGCCCAG  
ATTGAGGGTGGTGTCCATGGCCTGCACTCTTACGAAAAGCGGCTGTACTGAGGACAGCGGTGGAGGCCGAGGTGG  
TGGAGGGGATGCACCCAGTGTCCACTTTTGGGCACAGCCTCCCTCCATAACTGAGTGGTCCACAGATTTGCACT  
ACGGGTTCTCCAGCTCCTTTCCAGGCAGAGAGGAGGGGAGGTCTGAGGGGACTGCTGCCCCCTCACTCGGCATCC  
CCTGCAGAGTCAGGACTGCTCCCCGGGGCCAGGCTGCCCTGGGAGCCCCCTCCGAGCCAGCCAGCCAGGCTCTC  
AGGCCCTGCGCCTGCCTCAGGTCTTTCTGTGCTGCAGCCTGCTCCAGCCTGGCCCCCAGCCAGGGCAGGCGGCC  
CCTCCTGGCTTCTCCTGTAGGGCACCTCCCTGCCCTAGCCTCCAGGAAATGGTGTCTCTCTGGCCCTGCCTCT  
GGCCCTTCCCCGGGCCGCTGCCCCCTAGCCATGTGGCACTTCTGAGCTCCTGACCTAGGCCAAGGGGAGGTCTCTG  
CCCCCTTCCCCGGGCCCTGGGCTACCTTGGGTCTGTCTCCTCAGGCCGCTCCCCCTGTCCCTGGCCATGGGTAGGA  
GACTGCCCTGGTCATGGCCGCCCTGCCTGTCTTCTGACTCACCACCGTCCCCAGGTGAACCATTCCTCCCTTCT  
CCTCAGCTGCAGTCGAAGGCTTTAACTTTGCACACTTGGGATCACAGTTGCGTCATTGTGTATTAAATACTTGA  
ATAAATCAAGCAGGT

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**FIGURE 2403**

TTTCCAGCCCCAGCCCCGGACCCCTGCAGCCGCAGAGATGTTGACGCCTAAGAAGAACCGGATTGCCATTTATGAA  
CTCCTTTTTTAAGGAGGATGGTCATGGTGGCCAAGAAGGATGTCCACATGCCTAAGCACCCAGAGCTGGCAGACAA  
GAATGTGCCCAACCTTCATGTCAATGAAGGCCATGCAGTCTCTCAAGTCCCGAGGCTACGTGAAGGAACACTTTGC  
CTGGAGACATTTCTACTGGTACCTTACCAATGAGGGTATCCAGTATCTCCGTGATTACCTTCATCTGCCCCCGGA  
GATTGTGCCTGCCACCCTACCCCGTAGCCGTCCAGAGACTGGCAGACCTTGGCCTAAAGGTCTGTATGTGAGGAG  
TGCTGTGCTACCTGGTGGCGACAAGAAAGCCGAGGCTGGGGCTGGGTGAGCAACCGAATTCTAGTTTAGAGGCGG  
ATTTGGTCGTGGACGTGGTCAGCCACCTCAGTAAACTGGAGAGGATTCTTTTGCATTGAATAAACTTACAGCCA  
AAAAA

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**FIGURE 2404**

TGGGATTACAGGTAAGTGCCACCACACCCAGCTGATTTTTGTGTTTTTTGTAGAGACGAGGTTTCGCCATGTTTC  
CCAGACTGTTCTCAAACCTCTGAGCTCAAAGCAGTCCACCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGGTG  
TGAGCCACCTTGCTCATTCTAGTTTAAACTTTGGAGTGGTTTGTGTCTCCTGATTGGACTCCTGCAAATACAGAA  
TTGATGCTAGGAAGGGTACCAGGAGATAGACGCACACAGATGGGATTTGGGAATAGGTTTGGTTATCCAAGGAGC  
AGTGCTGAGCTCCTTGCTAATGGGATATGGGATGCTGGTGATTTCCAGTAAGTGACCTCAAATTACTCAGGCTA  
CCACATACTGTTGATTGTGATGAAATGCCAGTTGAAGCACCTGTCTCGAGCTTAGGGGTGCTACAAGTTGACC  
ACTGCAGCAGTAAAGATGACTCTGAAGAATGGCATGGGATGGATCCTTTTGAATGCACCTTGAGCAGCGGTCTCCA  
ACACAGGGCCACAGAGCTGGAGCTGGATCTACCATGAAAGACCTCTGAATCCAGGAAGAGAGACTGACTGAGCA  
ACATGTTATTACAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTAAGACGCCCCACTGATTCTACATTATGCTCC  
TACCTCCCGGCAGCCTCTCCAGGCCCAGAACTTTCTCCAATCAGCCTCTACAGACCAAGCTCATGACTCACAATG  
GCCTATTTAGGCCCATAACCTACGTCACGGCAGTCTCCGCAGATGAGCCTACTGCCCCACAACAGCCTCCACAGG  
CACAGCTCCATCGTTACAATGGCCTCTTTAGACCCAGCTCCTGCCTCCAGCCTTCTCTCCAGGCCCTGAACTTT  
CTCAAGTCGACCTCACCAGGCCCAGCTCATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGCC  
CCCTCCAGGCCCAGCCTCTGCCTCCCGTCGGCCTCTACAGTCCCAACATCTGCCTCACAGCAGATTCTTCACGCC  
CAGCATCTGCCTCACTGTGGACCCCCCAAGCCAAGCTCCCAACCTTTTCCAGCAGCTTCTACACACCCAGCTCCTGC  
CACCCAGTGGCCTCTTTAGGCCAAGCTCATGCTTCACAAGGGCCTTTCCAGGCCCAACTTTTGTCTCATGGCAAC  
CTTCCCTGGCCAGATTCTGCTGCTCTCCAGCAGCCTAGACAGGCCCAGGGCCTCTCTACATGCAGCTTATGCC  
TCACGGTGGCCTCTCCAGGCCCAACTCCTGTCCCAGGACGTCATCTCCGGGCCCAAACTTACTCAAGTCAGACT  
CTGTAGTCCCAACTGCTGCCTCCTGGTGGCCTATGAAGGCCCAAAATCTCCTCAAGTTGACCTTTCCAGGCCCAG  
CTCCTGCCTCCTGTGACGCTCTACAGGCCCAACCTCTACGTCATGGGGCTTCTCCAGGCCCACCTCTTCTCTT  
GGCTGGGTCTACAGGCACAACCTGCTGCCTCACACAGCCTTTTTTGGCCCAGTTCTGTCCAGCTCATGGCGGCC  
AATGTAGGCCCAAACTTCTCAAGTCAAACCTCTCCAGGCCACCTTCTGCTTCCCAGTGGCATGAACAGGCCCA  
GCTTTGACTTGAGAACAGCCTCTGCAGGCCCTGCTCTTGCCTCCAGGGGCTTTTTCCAGGCCCAGCTCTTGCCT  
CATGGCAGCTGCCCCAGGCCAAATTTCTGCCTGCCTGCCAGCAGCCTCAACAGGCATAGCTCCTCCCTCACAGTG  
GCCATTTAGGCCCAACTCATGACTGTCGGGCCATTTCCAGGCCCTAGTGCCTGCCTCGTGGCTGACTCTTGAAGC  
CCAAAACCTTCTCAAATCAGCCTTTTGCCCAACTTCTGTCTACTGTCGGACTCTACAGGCCAGCCTCTGCCTCAC  
AGTGGACCTCCAGACCCAGATGGTGTCTCACTGTGGCATCCTCAGTCGAAGCTCCTGCCTTTTCGGCAGCCTCTC  
CAGGCCCAGCTCCTCCTGCCTCCAGTGGCCTCTTTCGGGCCAGC

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**FIGURE 2405**

MLLPGLSLRPRTF SNQPLQTKLMTHNGLFRPIPYVTAVSADEPTAPQQPPQAQLHRYNGLFRPSSCLPAFSPGP  
ELSQVDLTRPSSCFFAASPGPAPASWWPLQAQPLPPVGLYSPNICLTADSSRPASASLWTPQAKLPTFQQLLHTQ  
LLPPSGLFRPSSCFTRAFFGPTFVSWQPSLARFLPVSQQPRQAQGLSTCSLCLTVASPGPTPVPGRHLRAQNLLK  
SDSVVPTAASWWPMKAQNLLKLTFFGPAPASCQRLQAQPLRHGGFSRPTSSSWLGLQAQLLPHNSLFWPSSCPAH  
GGQCRPKTSSSQTLQAHLLLP SGMNRPSFDLRTASAGPALASQGLFPGPALASWQLPQAKFLPACQQPQQA



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**FIGURE 2406**

TCTAATACCTATTGATCTGTCACTTTCTCCCATCACGCTCAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTA  
AGACGCCCCTGATTCTACATTATGGTGAGTTCTATAATTATTTTATTATATATTACAGTGTAATAATGGAAATA  
AAGTGCCTAATAAAATGCAAATGTGCTTACATCTTTTGGCCCAGCTCCTACCTCCCGGCAGCCTCTCCAGGCCCAG  
AACTTTCTCCAATCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCCCATAACCCTACGTCAC  
GGCAGTCTCCGCAGATGAGCCTACTGCCCCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTT  
TAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTCGACCTCACCAGGCCCAGCTC  
ATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGGCCCCCTCCAGGCCCAGCCTCTGCCTCCCGT  
CGGCCTCTACAGTCCCAACATCTGCCTCACAGCAGATTCTTACGCCCAGCATCTGCCTCACTTGGACCCTCCAG  
ACCCAGATGGTGTCTCACTGTGGCATCCTCAGTCGAAGCTCCTGCCTTTCGGCAGCCTCTCCAGGCCCAGCTCCT  
CCTGCCTCCCAGTGGCCTCTTTCGGCCCAGCCCAGCTCATGCCTCCCGGCGCCTTCCCAAGCCCCGCTTTTGAC  
TTTCGGTGGCCTCTGCAGGCCTCGACAAGGCCAGCCTCCTGCCTCCCGAAGGCCTGCACAGGCCCAGCCTCTGC  
CTCACAGCGGACTCTC

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**FIGURE 2407A**

AGCCCAAACCGCGGCCCTAGCCCCGGCCGCACCCCCAGCCCGCGCCAGCATGATGAACAACAGCGGCTACTCAGA  
CGCCGGCCTCGGCCTGGGCGATGAGACAGACGAGATGCCGTCCACGGAGAAGGACCTGGCGGAGGACGCGCCGTG  
GAAGAAGATCCAGCAGAACACATTACGCGCTGGTGCAATGAGCACCTCAAGTGCCTGGGCAAGCGCCTGACCGA  
CCTGCAGCGCGACCTCAGCGACGGGCTCCGGCTCATCGCGCTGCTCGAGGTGCTCAGCCAGAAGCGCATGTACCG  
CAAGTTCCATCCGCGCCCCAACTTCCGCCAAATGAAGCTGGAGAACGTGTCCGTGGCCCTCGAGTTCCTCGAGCG  
CGAGCACATCAAGCTCGTGTCATAGACAGCAAGGCCATCGTGGATGGGAACCTGAAGCTGATCCTGGGCCTGAT  
CTGGACGCTGATCCTGCACTACTCCATCTCCATGCCCATGTGGGAGGATGAAGATGATGAGGATGCCCGCAAACA  
GACGCCAAAGCAGCGGCTGCTTGGCTGGATCCAGAACAAGGTGCCCCAGCTGCCCATCACCAACTTCAACCGTGA  
CTGGCAGGACGGCAAAGCTCTGGGCGCCCTGGTGGACAACCTGCGCCCCCGGTCTCTGCCCCGACTGGGAGGCCTG  
GGACCCCAACCAGCCCGTGGAGAACGCCCGGAGGCCATGCAGCAGGCCGACGACTGGCTTGGGGTGGCCCAAGGT  
CATTGCCCCGTGAGGAGATTGTGGACCCCAACGTGGATGAGCATTCTGTTATGACCTACCTGTCCAGTTCCCCAA  
GGCCAAGCTCAAACCTGGTGGCCCTGTTCGATCCAAGCAGCTGAACCCCAAGAAAGCCATCGCCTATGGGCTGG  
CATCGAGCCACAGGGCAACACCGTGCTGCAGCCTGCCACTTACCCTGCAGACGGTGGACGCGGGCGTGGGCGA  
GGTGCTGGTCTACATCGAGGACCCTGAAGGCCACACCGAGGAGGCTAAGGTGGTTCCCAACAATGACAAGGATCG  
CACCTATGCTGTCTCCTATGTGCCCAAGGTGCTGGGTTACACAAGGTGACCGTGCTCTTTGCTGGCCAGAACAT  
TGAACGCAGTCCCTTTGAGGTGAACGTGGGCATGGCCCTGGGAGATGCCAACAAGGTGTCAGCCCGTGGCCCTGG  
CCTGGAACCTGTGGGCAATGTGGCCAACAAACCCACCTACTTTGACATCTACACTGCGGGGGCCGGCACTGGCGA  
TGTTGCTGTGGTGATCGTGGACCCACAGGGCCGGCGGGACACAGTGGAGGTGGCCCTGGAGGACAAGGGTGACAG  
CACGTTCCGCTGCACATACAGACCTGCCATGGAGGGGGCCACATACCGTGATGTGGCCTTTGCGGGTGCCCCAT  
CACCCGCAGTCCCTTCCCTGTCCATGTGTGGAAGCCTGTAACCCCAACGCCTGCCGCGCCTCTGGGCGAGGCCCT  
GCAGCCCAAGGGTGTTGCGGTGAAAGAGGTGGCTGACTTCAAGGTGTTTACCAAGGGTGCCGGCAGCGGGGAGCT  
CAAGGTACGGTCAAGGGGGCCAAAGGGCACAGAGGAGCCAGTGAAGGTGCGGGAGGCTGGGGATGGTGTGTTTGA  
GTGCGAGTACTACCCGGTGGTGCCTGGGAAGTATGTGGTGACCATCACGTGGGGCGGCTACGCCATCCCTCGCAG  
CCCCTTTGAGGTACAGGTGAGCCAGAGGCAGGAGTGCAAAAGGTCCGGGCGCTGGGGTCTGGTTTGGAGACTGG  
CCAGGTGGGCAAGTACGCCGATTTTGTGGTGGAAGCCATTGGCACCGAGGTGGGGACACTGGGCTTCTCCATCGA  
GGGGCCCTCACAAGCCAAGATCGAATGTGACGACAAGGGGGATGGCTCCTGCGATGTGCGGTACTGGCCACGGA  
GCCTGGGGAGTACGCTGTGCACGTATCTGTGACGATGAGGACATCCGAGACTCACCTTCATTGCCCACATCCT  
GCCCCCCCCACCTGACTGCTTCCAGATAAGGTGAAGGCCTTTGGGCCCTGGCCTGGAGCCTACCGGCTGCATCGT  
GGACAAGCCCGCTGAGTTCACCATTGATGCTCGTGACGTGGCAAGGGAGACCTGAAGCTCTATGCCAGGACGC  
CGACGGCTGTCCCATCGACATCAAGGTGATCCCCAACGGCGACGGCACCTTCCGCTGCTCCTACGTGCCACCAA  
GCCCATTAAAGCACACCATCATCATCTCCTGGGGAGGCGTAAACGTGCCCAAGAGCCCTTCCGGGTGAACGTGGG  
CGAGGGCAGCCACCCGAGCGGGTAAAGGTGTACGGCCCCGGAGTGGAGAAGACAGGCCTCAAGGCCAATGAGCC  
CACCTACTTCACGGTGGACTGCAGCGAGGCGGGGCAAGGCGACGTGAGCATCGGCATCAAGTGCGCCCCAGGCGT  
GGTGGGCCCCGTGCAGAGGCTGACATTGACTTCGACATCATCAAGAATGACAACGACACCTTACCCTCAAGTACAC  
GCCACCAGGGGCGGGCCGCTACACCATCATGGTGCTGTTTGCCAAACCAGGAGATCCCCGCCAGCCCTTCCACAT  
CAAGGTGGACCCATCCCACGATGCCAGCAAAGTCAAGGCCGAGGGCCCTGGGCTGAATCGCACAGGTGTGGAAGT  
CGGGAAGCCCCACCCACTTCACGGTGCTGACCAAGGGAGCCGGCAAGGCCAAGCTGGATGTGCAGTTTGCAGGGAC  
AGCCAAGGGCGAGGTTGTGCGGGACTTTGAGATCATAGACAACCATGACTACTCCTACACTGTCAAGTACACCGC  
TGTCCAGCAGGGCAACATGGCAGTGACAGTGAATTTATGGCGGGGACCCTGTCCCCAAGAGCCCTTTGTGGTGAA  
TGTGGCACCCCCGCTGGACCTCAGCAAAATCAAAGTTCAGGGCCTTAATAGCAAGGTGGCTGTGGGACAGGAACA  
AGCATTCTCTGTGAACACACGAGGGGCTGGCGGTGAGGGCCAACTGGATGTGCGGATGACTTCGCCCTCTCGCCG  
GCCCCATCCCTGCAAGCTGGAGCCAGGCGGTGGAGCGGAAGCCAGGCTGTGCGCTACATGCCCCCGGAGGAGGG  
GCCCTACAAGGTGGATATCACCTACGATGGTCAACCGGTGCCTGGCAGCCCCGTTTGCTGTGGAGGGTGTCTGCGC  
CCCTGATCCCTCCAAGGTCTGTGCTTATGGCCCGGGTCTCAAGGGTGGACTGGTAGGCACCCCGCGCCATTCTC  
CATCGACACCAAGGGGGCTGGCACAGGTGGCCTGGGGCTGACCGTAGAGGGCCCCCTGCGAGGCCAAGATCGAGTG  
CCAGGACAATGGTGATGGCTCATGTGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT  
GTTTGCTGAGGGCCACATCCCTGGCTCGCCCTTCAAAGCCACCATTTCGGCCTGTGTTTGACCCGAGCAAGGTGCG  
GGCCAGTGGACCGGGCCTGGAGCGCGGCAAGGTGCGGTGAGGCAGCCACCTTCACTGTGGACTGCTCAGAGGCAGG

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**FIGURE 2407B**

CGAGGCGGAGCTGACCATTTGAGATCCTGTGCGGATGCCGGGGTCAAGGCCGAGGTGCTGATCCACAACAACGCGGA  
TGGCACCTACCACATCACCTACAGCCCTGCCCTCCCTGGCACCTACACCATTACCATCAAGTATGGCGGGCATCC  
CGTGCCCAAATTTCCCAACCCGTGTCCATGTGCAGCCTGCGGTGCGATACCAAGTGGCGTCAAGGTCTCAGGGCCTGG  
TGTTGAGCCACACGGTGTCTGCGGGAGGTGACCACTGAGTTCACTGTGGATGCAAGATCCCTAACAGCCACAGG  
CGGCAACCACGTGACGGCTCGTGTGCTCAACCCCTCGGGGGCCAAGACAGACACCTATGTGACAGACAATGGGGA  
CGGCACCTACCGAGTGCAGTACACCGCCTACGAGGAGGGCGTGCATCTGGTGGAGGTCTGTATGATGAGGTTCG  
TGTGCCAAAGAGCCCCCTTCCGAGTGGGCGTGACCGAGGGCTGTGATCCCAACCGCGTCCGAGCCTTCGGGCCAGG  
CCTGGAGGGTGGCTTGGTCAACAAGGCCAACCATTCACTGTGGAGACCAGGGGAGCGGGACCGGGGGCCTTGG  
CCTAGCCATCGAGGGTCCCTCGGAAGCCAAGATGTCTGCAAGGACAACAAGGATGGTAGCTGCACCGTGGAGTA  
CATCCCCCTTCACTCCTGGAGACTATGACGTCAACATCACCTTCGGGGGGCGGGCCATCCCAGGGAGCCCGTTCCG  
CGTGCCAGTGAAGGATGTGGTGGACCTGGGAAGGTGAAGTGCTCAGGGCCAGGGCTGGGGGGCTGGTGTGAGGGC  
CCGGGTTCTCAGACCTTACAGTGGATTGCAGTCAAGCTGGCCGGGCGCCCCCTGCAGGTGGCTGTGCTGGGGCC  
CACAGGTGTGGCCGAGCCTGTGGAGGTGCGGGACAATGGAGATGGCACCCACACTGTCCACTACACCCAGCCAC  
TGACGGGGCCCTACACGGTAGCCGTCAAGTATGCTGACCAGGAGGTGCCACGCAGCCCCCTTCAAGATCAAGGTCT  
CCCAGCTCATGATGCCAGCAAGGTGCGGGCCAGCGGCCAGGCCTCAACGCCTCTGGCATCCCTGCCAGCCTGCC  
TGTGGAGTTCACCATCGACGCACGGGACGCGGGCAGGGGTTGCTCACTGTCCAGATCTTGGACCCCGAGGGTAA  
GCCCAAGAAGGCCAACATCCGGGACAATGGGGATGGCACGTACACTGTGTCTTACCTGCCGGACATGAGTGGCCG  
GTACACCATCACCATCAAGTATGGCGGTGATGAGATCCCCTACTCGCCCTTCCGCATCCATGCTCTGCCCACTGG  
GGATGCCAGCAAGTGCCTCGTCAGTGTCCATTGGAGGCCATGGCCTGGGTGCCTGCCTGGGCCCTCGAATCCA  
GATTGGGCAGGAGACGGTGCATCAGGTGGATGCCAAGGCAGCCGGTGAAGGGAAGGTGACATGCACGGTGTCCAC  
GCCGGATGGGGCAGAGCTCGATGTGGATGTGGTTGAGAACCATGACGGTACCTTTGACATCTACTACACAGCGCC  
CGAGCCGGGCAAGTACGTATCACCATCCGCTTCGGGGGTGAGCACATCCCCAACAGCCCCCTTCCACGTGCTGGC  
GTGTGACCCCTGCCGCACGAGGAGGAGCCCTCTGAAGTGCCACAGCTGCGCCAGCCCTACGCTCCTCCCCGGCC  
CGGCGCCCGCCCCACACACTGGGCCACAGAGGAGCCAGTGGTGCCTGTGGAGCCAATGGAGTCCATGCTGAGGCC  
CTTCAACCTGGTATCCCTTCGCGGTGCAGAAAGGGGAGCTCACAGGAGAGGTGCGGATGCCCTCGGGGAAGAC  
GGCACGGCCCAACATCACCGACAACAAGGACGGCACCATCACGGTGAAGGTATGCACCCACTGAGAAAGGCCTGCA  
CCAGATGGGGATCAAGTATGACGGCAACCACATCCCTGGGAGCCCTTACAGTTCTATGTGGATGCCATCAACAG  
CCGCCATGTCAAGTGCCTATGGGCCAGGCCTGAGCCATGGCATGGTCAACAAGCCAGCCACCTTCACTATTGTAC  
CAAAGATGCTGGAGAAGGGGGTCTGTCACTGGCCGTGGAGGGCCCATCCAAGGCAGAGATCACTGTAAAGGACAA  
CAAGGATGGCACCTGCACCGTGTCTATCTGCCGACTGCGCCTGGAGACTACAGCATCATCGTGCCTTCGATGA  
CAAGCACATCCCGGGGAGCCCCCTTACAGCCAAGATCACAGGTGATGACTCCATGAGGACCTCACAGCTGAATGT  
GGGCACCTCCACGGACGTGTCACTGAAGATCACCGAGAGTGATCTGAGCCAGCTGACCGCCAGCATCCGTGCCCC  
CTCGGGCAACGAGGAGCCCTGCCTGCTGAAGCGCCTGCCCAACCGGCACATTGGGATCTCCTTACCCCCAAGGA  
GGTCGGGGAGCACGTGGTGAGCGTGCAGAGTGGCAAGCATGTACCAACAGCCCCCTTCAAGATCCTGGTGGG  
GCCATCTGAGATCGGGGACGCCAGCAAGGTGCGGGTCTGGGGCAAGGGGCTTTCCGAGGGACACACATTCCAGGT  
GGCAGAGTTCATCGTGGACACTCGCAATGCAGGTTATGGGGGCTTGGGGCTGAGTATTGAAGGCCAAGCAAGGT  
GGACATCAACTGTGAGGACATGGAGGACGGGACATGCAAAGTCACCTACTGCCCCACCGAGCCCGGCACCTACAT  
CATCAACATCAAGTTTGCTGACAAGCACGTGCCTGGAAGCCCCCTTCACTGTGAAGGTGACCGGCAGGGCCGCAT  
GAAGGAGAGCATACCCGGCGGAGACAGGCACCTTCCATCGCCACCATCGGCAGCACCTGTGACCTCAACCTCAA  
GATCCCAGGAACTGGTTCCAGATGGTGTCTGCCAGGAGCGCCTGACACGCACCTTACACGCAGCAGCCACAC  
CTACACCCGCACGGAGCGCACGGAGATCAGCAAGACGCGGGGCGGGGAGACAAAGCGCGAGGTGCGGGTGGAGGA  
GTCCACCCAGGTGCGCGGGGACCCCTTCCCTGCTGTGTTTGGGGACTTCCTGGGCGGGGAGCGCCTGGGATCCTT  
CGGCAGCATACCCGGCAGCAGGAGGTGAGGCCAGCTCTCAGGACATGACTGCACAGGTGACCAGCCCATCGGG  
CAAGGTGGAAGCCGCAGAGATCGTCGAGGGCGAGGACAGCGCCTACAGCGTGCGCTTTGTGCCCCAGGAAATGGG  
GCCCCATACGGTCGCTGTCAAGTACCGTGGCCAGCACGTGCCCCGCGAGCCCCCTTTCAGTTCACTGTGGGGCCGT  
GGGTGAAGGTGGTGCCACAAGGTGCGGGCCGGAGGCACAGGGCTGGAGCGAGGTGTGGCCGGCGTGCCAGCCGA  
GTTTACGATCTGGACCCGGGAGGTGGCGCTGGGGGCTGTCCATTGCTGTGGAGGGTCTAGCAAAGCGGAGAT  
TGCATTTGAGGATCGCAAAGATGGCTCCTGCGGCGTCTCCTATGTCTCCAGGAACCAGGTGACTATGAGGTCTC

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**FIGURE 2407C**

CATCAAGTTCAATGATGAGCACATCCCAGACAGCCCCTTTGTGGTGCCTGTGGCCTCCCTCTCGGATGACGCTCG  
CCGTCTCACTGTCACCAGCCTCCAGGAGACGGGGCTCAAGGTGAACCAGCCAGCGTCCTTTGCCGTGCAGCTGAA  
CGGTGCCCCGGGGCGTGATTGATGCCCCGGGTGCACACACCCTCGGGGGCTGTGGAGGAGTGCTACGTCTCTGAGCT  
GGACAGTGACAAGCACACCATCCGCTTCATCCCCACGAGAATGGCGTCCACTCCATCGATGTCAAGTTCAACGG  
TGCCACATCCCTGGAAGTCCCTTCAAGATCCGCGTTGGGGAGCAGAGCCAGGCTGGGGACCCAGGCTTGGTGTC  
AGCCTACGGTCCTGGGCTCGAGGGAGGCACTACCGGTGTGTATCAGAGTTTCATCGTGAACACCCTGAATGCCGG  
CTCGGGGGCCTTGTCTGTCAACCATTGATGGCCCCCTCAAGGTGCAGCTGGACTGTGCGGAGTGTCTGAGGGCCA  
TGTGGTCACTTATACTCCCATGGCCCCCTGGCAACTACCTCATTGCCATCAAGTACGGTGGCCCCCAGCACATCGT  
GGGCAGCCCCCTTCAAGGCCAAGGTCACTGGTCCGAGGCTGTCCGGAGGCCACAGCCTTCACGAAACATCCACGGT  
TCTGGTGGAGACTGTGACCAAGTCCCTCCTCAAGCCGGGGCTCCAGCTACAGCTCCATCCCCAAGTTCTCCTCAGA  
TGCCAGCAAGGTGGTGAAGTCCGGGGCCCTGGGCTGTCCCAGGCCTTCGTGGGCCAGAAGAACTCCTTACCGTGGA  
CTGCAGCAAAGCAGGCACCAACATGATGATGGTGGGCGTGACGGCCCCAAGACCCCTGTGAGGAGGTGTACGT  
GAAGCACATGGGGAACCGGTGTACAATGTACCTACACTGTCAAGGAGAAAGGGGACTACATCCTCATTGTCAA  
GTGGGGTGACGAAAGTGTCCCTGGAAGCCCCCTTCAAAGTCAAGGTCCCTTGAATCCCAAAAGTGCCTCCCCAGCC  
TCAGCCCCCACCTCCAGCCACACACACATTACACACACACACACACACACACAAATGTGCCACACCCAGACACGC  
ACAGAATCAGACACTACAAACACCTGCCTTGGGGGTGAAGTGAAGGCCAGCCTCCCCACCCACCGCGCCCCAG  
GGGTTGGAGGACCTTGTCTGTGTGTCAGGACAGTGTCCCTCCCTGGGAATGTGACATGAGGGCCGACTGGGGCCAGG  
CTCAGGGGCAGAGGCTGGGACACAAGGGGCTGGCGAGGGCTGCGAGGCCAGGGAAGCCCTGAGTTTCTGGCGGGG  
CTGAGCAGTGGGGGAGCATTGTGTTGTGGGTGTCTGTGTGTGAGGTACCCCTCAAAGTGCACCGCCGGCCAGATA  
CCCTCCTGACCCCGAGGACTTGGTCTGGTCTCTCTGGTGGCTACAACCCAGAGTTTAAAGGACTTGAAAGGAA  
AGCACAATCAGAGAAGAAAACAGCCCCGAACCAGCAGGAGTGGCCTGGCACATGGACCGGCCTGAGCGATGTGC  
ACTCCACCCAAGCCAGGCTCCCAGGGGGCCTGATTTCTCTCTCACTGTCTCTTTTTTTAAATGGTTGCACGGCT  
CTGCCCCATGGGGGGCCTTTTTTACACACTGCGAGGCCAGCTTTCTAGGGGACTTTTGCACATGTCATGCAGCT  
CAGCTGGGAGCTGCTTAGGTGGAAAACCCAAATAAAGTGC GGCTGTGCGC

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**FIGURE 2408**

MAPGNYLIAIKYGGPQHIVGSPFKAKVTGPRLSGGHS�HETSTVLVETVTKSSSSRGSSYNSIPKFSSDASKVVT  
RGPGLSQAFVGQKNSFTVDCSKAGTNMMMVGVHGPKTPCEEVYVKHMGNRVYNVTYTVKEKGTTSLSSSGVTKVS  
LEAPSKSRSLESQKCLPSLSPHLQPNTHYIHTHTHTNVPHPDHTQNTLQTPALGVK

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**FIGURE 2409A**

GGAGGCGGGGCGGACCAAGAGCAGGAGCTGGAGTCTGAGCCGGTGGTTGCAGCGGAGGCGGTGATGTCGGTGCAG  
GTTGTGTACGCCGCGGCTGCCGCCAAGGTGCCGTGAGGTGGAGCTGAAGGACCTGAGCCCCCTCCGAGGCGGAGTCG  
CAACTAGGACTGAGCACGGCCGCCGTGGGCGCCATGGCCCCCGGCGGGCGGTGGAGACCCCTGAGGCTCCAGCT  
CCCGCCGCGGAGCGGCCCCCGGTCCCCGGCCCGGGCTCGGGGCCCCGCCCGCTCTCAGCCCCGCCGCCGGGAAG  
GTGCCTCAGGCGTCGGCCATGAAGCGGAGCGACCCACATCACCAGCACCAGCGGCACCCGCGACGGCGGCGAGGCC  
CTGGTCAGCCCCGACGGCACCGTCACCGAGGCGCCGCGCACAGTCAAGAAGCAGATCCAGTTTGTGTGACCAGAAG  
CAAGAATTCAACAAACGTCCCACCÀAAATTGGACGTCGCTCTTTGTCTCGTTCCATTTCTCAGTCATCTACTGAC  
AGCTACAGCTCAGCGGCTTCATATACAGATAGCTCTGATGATGAGACATCGCCCAGGGACAAGCAGCAAAAGAAC  
TCTAAGGGAAGCAGTGACTTCTGTGTTAAGAACATCAAACAGGCAGAGTTTGGACGAAGAGAAAATTGAAATTGCT  
GAACAAGAAATGCCTGCATTGATGGCTTTGAGGAAGAGAGCTCAAGGAGAAAAGCCTTTGGCTGGAGCCAAAATC  
GTGGGTTGCACACACATCACTGCTCAGACTGCTGTGCTTATGGAACTCTGGGTGCTCTGGGGGCCAGTGCCGA  
TGGGCTGCCTGCAACATCTATTCCACTCTCAATGAAGTGGCTGCTGCTCTAGCAGAAAGTGGATTTCTGTTTTT  
GCCTGGAAGGGAGAGTCAGAAGATGACTTTTGGTGGTGTATCGATAGATGTGTGAATGTGGAGGGCTGGCAGCCA  
AACATGATCTTGGATGATGGAGGGGATCTTACCCACTGGATTTATAAAAAGTATCCCAACATGTTTAAAGAAAATC  
AAGGGCATAGTAGAGGAGAGTGTTACTGGAGTTCACAGGCTGTACCAACTGTCCAAAGCTGGGAAGCTGTGTGTT  
CCAGCCATGAATGTCAATGACTCAGTCACCAAACAGAAATTTGACAACCTCTACTGTTGCCGTGAATCAATTCTT  
GATGGACTTAAAGGACAACAGACATGATGTTTGGTGGAAAGCAAGTGGTAGTCTGTGGCTATGGAGAGGTGGGG  
AAAGGGTGCTGTGCTGCCCTGAAAGCCATGGGCTCCATTGTGTATGTAAGTAAATTGACCCCATCTGTGCCCTG  
CAAGCCTGTATGGATGGATTTGACTGGTGAATTAATGAGGTATCCGACAAGTGGACATTGTTATTACCTGT  
ACAGGTAACAAGAATGTGGTAACCAGAGAGCACTTGGACCGTATGAAGAATAGCTGCATCGTTTGTAAACATGGGA  
CATTCCAACACAGAGATTGACGTGGCGAGTCTGCGGACACCAGAAGTACCTGGGAGCGAGTGAGATCTCAAGTT  
GACCATGTGATATGGCCTGATGGCAAGAGGATAGTACTGCTGGCAGAGGGCCGCTGCTGAACCTTAGCTGCTCC  
ACAGTGCCTACATTTGTGCTCTCAATCACTGCTACTACTCAGGCTCTTGCCCTTGATAGAGCTTTACAATGCTCCT  
GAGGGTCGCTATAAGCAGGATGTCTACCTGTTGCCCAAGAAGATGGATGAGTATGTGGCCAGCCTACACCTGCCT  
ACCTTTGATGCCCACTTGACAGAGCTGACAGATGAACAGGCCAAGTATCTGGGACTCAACAAGAATGGGCCCTTC  
AAGCCTAATTACTACAGGTATTAAGTTCTGTAACTCAAACCAGAAATTTTAAAGGAATAGAAGTCCAAGCCTTTT  
CTCCACTACTATAACAAGAAAGAATTCAGCAAGCTGCTTCTCCAATCAAAGCTGCCTGCCGTGCTACCCCTGTGTG  
TTAGGTTATTTATTTATTAATAAATCAAGAATCCTGTGCCTGTAGTGTGGCCAGAGTGTGGTTACTGCCCTGAGG  
GCCATGAAAGCCACAGAGGATGGGCTGAGGAAGGAAAGAAATGGGGTTACTGCTCCAGTGCATCATTGTCATCA  
TTCCCCATTGACTGAATCCTCAGCAGTGGCCGTTTTTCTCTTGTCCAGGCTCACGAGTTAGTCCAGGGATTCCA  
TACTCCCTATTCCCTGGAGTTTTCTGGAATAAAATTTTACGACCTGCTTTTCTCAGCTTGGCCCTTCCCCGGGTG  
AGGCCGTTTTGGAATTAACATGGCCAGTGTTCACACAAGATTGGGTTCCCAATCTTGACCATCACTATCACTGCC  
TTCTTTATATAAAGGCTAATAAGGAAGGAGTGTATTTATGGCTTTGCCAAGCTACATCAAGAACTCAGCTGTGC  
TGTGCCTACCAGGGGTCTCCTTTCTTACCCAGGACTCCTTTCTTCTCCTTGAATATTTATGTCCATTTTAACT  
TCCTGGTTGCAAGAGGGATGTGCCTCCATTATTTCTCCACAGTTTTTGGTATTTGTGACACATTTGTTCTGCTGT  
CTTTCTAATCCAGCCAACGTCTGCTCAGGAAGTGGGGCCAGCTCCACTGGGACCCATAGTTTTACTTCCTTGTC  
TTTGATTGGATAGTTTCCAAGGAAGCCCCCTCCAGATTGGCACTATCTCAGAAAAGGAGAGCTTGTGTGAAACAC  
TGCTTCCTGAAACTTCCTGCTATTGCCTAAAGCTACGTCTGAACTGAGTAGGGAAGGCATACTTTTCCAGGGA  
CTTAGGGGGATAGGCTTTGGAAATGGGACAGGTCTTTCAGACTCACAGCTTGATACCCTAACAAAGCAGAGTATA  
TTTATTTGTTTCCAGGAAGGCCATTGCAGTTTGACTGGCTGAGGGATACAGAGATGAAATTGTAACTGTATCC  
AGATTATCAAAGCTAATTGACTAGTTTGAACCTCGTCAGACATTCATTCTTTGGCCATTGCCATGGATGAAAC  
CGAGATCTGCAGTCTGATCTGTGGACTTCTCTGCTGGCATATCTTTTATGATTTAACCTCTTCCATTTGATGATT  
CTGTATTTAGAGTCAGTTTCTTGAGTAACTCCAGTGCTACAAAAAGAAATTAGTAATGTGGTGTGGGCAGCGTGA  
CATTTTATGTCCACCCAAAAATTGGATTCTTTTGGAGACTGATCTGTTGGTCTCAGGCATTTTCATTAGGACCA  
GATTGGTTCTAAGAGTTAGTCTGGACTGGCCCTAGGAAACTTGAATTAAATAAGCCTCTTCCCCCTTACCGATCCT  
TTTTAACACTCTCAGGTTTGTGTTTCCCACTTTTTTCTATGCTGGTCTGCCTCAAAGTCTCAAGACCAAGGT  
GACTCAAGATAACACCAGACCACGCATGATCACAAAAACCTTCCCATCTGATTCTCTTCTTCTACCTCTACCTT  
CTCCAACCTCTCCTGGTCTTCACATATACTCTCAAAGCTAGTCTGAAAGTGACCTTACTTTTGGGAAGTAGGGAAG

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**FIGURE 2409B**

TGGAAC TTTGGTAAATGACTGTTTGCCTCATTTAATAGTATACAGGCTCAGCCCATAGACTACAGTTCTTCAGAG  
GCCATATGTCTCAGCAAGTACTGGTTATATTCTTTTTTTGTAAGGAAGATCATAAATGCTAAAAATTCCTACTAAG  
CCATTTCAGTTCTTCTTTTGCCTACCTAGTCCTGATTTTTGTATTAATTGGTTCCCTTTAGCAAGGGATTTCAGAT  
CTTTGTACCTTATCTTATATCCAGAGCAGATTCCATTGGCAGATAGATGGTCTCTAGCCTATTGTATTCTTAGA  
CCAAAAATCATAACCTGCTGTTTCTCAGCAAAGCCTTGCTCTCTGGAGCTTACTATGTGCTGGTACTTAAAGAGT  
ACATTCTGCCTTGCTGTAGTGAAGAGACCCACTCCAAATAAAAAAGGGGCCACACGGGGCTTCTAAGTTAGGTTG  
CCAGTGTTGCTGCCCATGATGAGTTATTTGCCTCTGAGTTTCAGATGACCTCTCTGTAGGGGACACTGTGTTATCA  
ACCATTAAGAAGAAAGAACCACAAGCCTCCCAAGTATTTGGGTTCTATCTTAGGGTTGAAATCTGGTCATTATTC  
CCTCTACCCTTGGAATCAGAGCAATGTGTCTTCTTTCCCTCCAACCTCTTACCTTAGATGCATCCTGGTTATCTGG  
AAGCATGGGAAAGAAGGCTACTTATCTCTTTGTATGTGGCTCCAGTCTGTGAGGATACATAACATTTTCTCTACA  
ATGAATCTGTGCTAATATTTTGCCTTCTTCTTTCTTTTCTTTTACCCTTAGAGACAGGGTTTCACTATGTTGC  
CCAGGCTGGTCTCAAACCTCCTGGGCTCAAGCAATCCTCCTGCCTCAGCTTCCTGAGTAGCTGGAACCACAGGTGT  
GTGCTACCGTGCCTGGCACTTTTTTGCCTTCTTAATGGAGATATTCAGTTTTCTTTTTTTCATTTAAACAAAGAA  
AAAAAATGTATCTACTCTACCTTCCCTCTGCTCTCCTCCCTCCCTATCCTACTTGCCCATATGAGCACGGCTCCC  
CATGGCCACATACTCCTGCAAAGCTTTTATGCTGCTTCGCTTTTCTCTAAACAGATCTGATATTGCTGCTCCTGT  
GGTTTTCTCAAATTAAC TTTGCCGTGGTTTTTAAAAAGGAATCAAATGCATTGTTGCATTAAGCTTTTTCAAT  
AAAGGAAAATTACGGAAGGAAAATAGGCAACACCAGCAAATTATATGTGGACAGGTTCTAAACTCTATATATACA  
TATATATATATATATCTATATATCTATATACGTAATCATCTAGTTCTGTCTATCTTACTGAAAGGAATAACACTTC  
TAAAGATCACCATTTCTGAGAAGTTCTTGAAATCTTTATGTCTAAGTGATTGTATTAGATCAGCAATAATGACT  
ATGTAATCTCAAAAAACAAATAAAATATTCTTAACATGG

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**FIGURE 2410**

MSVQVVSAAAAAKVPEVELKDLSPSEAESQLGLSTAAVGAMAPPAGGGDPEAPAPAAERPPVPGPGSGPAAALSP  
AAGKVPQASAMKRSDPHHQHQRHRDGGEALVSPDGTVTEAPRTVKKQIQFADQKQEFNKRPTKIGRRSLRSISQ  
SSTDYSSAASYTDSSDDETSRDKQQKNSKGSSDFCVKNIKQAEFGRRREIEIAEQEMPALMALRKRAQGEKPLA  
GAKIVGCTHITAQTAVLMETLGALGAQCRWAACNIYSTLNEVAAALAESGFPVFAWKGESEDDFWWCIDRCVNVE  
GWQPNMILDDGGDLTHWIYKKYPNMFKKIKGIVEESVTGVHRLYQLSKAGKLCVPAMNVNDSVTKQKFDNLYCCR  
ESILDGLKRITDMMFGGKQVVCGYGEVGKCCAALKAMGSIVYVTEIDFICALQACMDGFRVLKLNVEVIRQVDI  
VITCTGNKNVVTREHLDRMKNSCIVCNMGHSNTEIDVASLRTPELTWERVRSQVDHVIWPDGKRIVLLAEGRLLN  
LSCSTVPTFVLSITATTQALALIELYNAPEGRYKQDVYLLPKKMDEYVASLHLPTFDAHLTELTDEQAKYLGLNK  
NGPFPKNYYRY



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**FIGURE 2411**

AGTTCCTGGTCCAGAACTTTACACAGAAAAGGTGCTCAAAGGATATTTGTTTAAATGAATGTGGTATGCTGACATT  
TAAACAGGACAAAACCTTGTAGAACTTCATGGAGGAACACGGAGTGACCCAAACCGAACATATGGCTACCATAGAA  
GCACATGCAGTGGCCCAGCAAGTGCAGCAGGTCCATGTGGCTACTTACACCGAGCATAGTATGCTGAGTGCTGAT  
GAAGACTCGCCTTCTTCTCCCGAGGACACCTCTTACGATGACTCAGATATACTCAACTCCACAGCAGCTGATGAG  
GTGACAGCTCATCTGGCAGCTGCAGGTCTGTGGGAATGGCCGCTGCTGCTGTGGCAACAGGAAAGAAACGG  
AAACGGCCTCATGTATTTGAGTCTAATCCATCTATCCGGAAGAGGCAACAAACACGTTTGCTTCGGAAACTTCGA  
GCCACGTTAGATGAATATACTACTCGTGTGGGACAGCAAGCTATTGTCTCTGTATCTCACCCCTCCAAACCTAAC  
CCTGTCTTTAAAGTGTGGTGCAGCACCTTTGGAGAATGTGGTGCGTAAGTACAAGAGCATGATCCTGGAAGAC  
CTGGAGTCTGCTCTGGCAGAACACGCCCCCTGCGCCACAGGAGGTTAACTCAGAACTGCCGCTCTCACCATCGAC  
GGAATTCCAGTCTCTGTGGACAAAATGACCCAGGCCAGCTTCGGGCATTTATCCCAGAGATGCTCAAGTACTCT  
ACAGGTGCGGGGAAAACAGGCTGGGGGAAAGAAAGCTGCAAGCCCATCTGGTGGCCTGAAGATATCCCCTGGGCA  
AATGTCCGGAGTGATGTCCGCACAGAAGAGCAAAAGCAGAGGGTTTCATGGACCCAGGCACACGACCATAGTT  
AAAACTGTTATAAACAGCATGGGCGGGAAGACCTTTTGTATGCCTTTGAAGATCAGCAAACGCAAACACAGGCC  
ACAGCCACACATAGTATAGCTCATCTTGTACCATCACAGACTGTAGTCCAGACTTTTAGTAACCCTGATGGCACT  
GTCTCACTTATCCAGTTGGTACGGGGGCAACAGTAGCCACATTGGCTGATGCTTCAGAATTGCCAACCACGGTC  
ACCGTTGCCCAAGTGAATTATTCTGCCGTGGCTGATGGAGAGGTGGAACAAAATTGGGCCACGTTACAGGGAGGT  
GAGATGACCATCCAGACGACGCAAGCATCAGAGGCCACCCAGGCGGTGGCATCGTTGGCAGAGGCCGAGTGCCA  
GCTTCTCAGGAGATGCAGCAGGGAGCTACAGTCACTATGGCGCTTAACAGCGAAGCTGCCGCCCATGCTGTGCC  
ACCCTGGCTGAGGCCACCTTACAAGGTGGGGGACAGATCGTCTTGTCTGGGGAACCGCAGCAGCCGTCGGAGCA  
CTTACTGGAGTCCAAGATGCTAATGGCCTCTTTATGGCAGATCGTGCAGGTGCGAAGTGGATCCTGACTGACAAA  
GCCACAGGCCTGGTCCAGATCCCTGTGAGCATGTACCAGACTGTGGTGACCAGCCTCGCCAGGGCAACGGACCA  
GTGCAGGTGGCCATGGCCCCTGTGACCACCAGGATATCAGACAGCGCAGTCACCATGGACGGCCAAGCTGTGGAG  
GTGGTGACATTGGAACAGTGACATACAGCCATATTATGGCATCGTTTTCTAGTCTACTTCAAAATTTTTTACACG  
TTTGCAGAGGTGCAATCAAATGGAATTAAGTCTCTCGACTTTGGAAGGAAAGTTTTGTTAACCTTTTTTTTTTA  
AAAGGAAGAAAGCGGATTTTGAATTGCATTTTTTAAAGCACCACTCTTGATTTTCTGGGATTGGTGAAGAACT  
GCATTGTCAATTTCACTGTCCCAAAAAGCCAAATTGTGGCAGGACTTCTTTCTGCGGAAATGTGTGTGTACT  
TATGTGTGTGTATGTGTGAGTGTGAATATATGTATATGTGTACATATGGACATACACATTTACATATATATAAG  
TATATATATACATATATATATATATATATGTATGAAACCCGCATGGAATTATCTGTATGAAATCAAGGTGCGCTG  
TGGAAACAATAATTCACCCAGTTTGTAGTGGGTGGTAGGGTACGTGGCCAGACACAGTCACCCAGTTTTTGTTCATA  
CCAGGGTCATGCGTTGAGCTACTGACAAACTCAGGCGGAGGTGACCATGCCCTTCACCAAAGCTGCCTCCCAGTG  
GCCACACAGAACTCTCCCTGCTGGACTCACCTGAGGAAAGAGGCTCCAGCATGGGGTGGGTGAGAGATGTGCTTG  
CAAGGTCCAGGGACTGCGTGGTCTGCCAGCTGAGATGCTCCTCGGGCTGGCCAGGTGCTGACCTTGCCACAGGC  
AGATGAATGTCTTGAAAGCTCCCGGGCCTCAGCCTCCCATCTCCTCTCCTTCCCAGGAATCCTTGATCTCATGAC  
TATTAATAATGTTGCTCTGGTTTTAAGGTGAGTCTGAATTGCTCGTATATATGAACTGAAGGTAACCGAAGTATT  
AGGGGTTTGAGGAGTGCGTGCGTGTAAAGTGTGCTTGTGTGTGTGCGTGATGGTGGGGGAGAGGATGGGAAGGGG  
GCGGGGGCAGTGGAAGGGAAAGGAAGGAAAGAAAAATCGTCCTAGACCAGGATACACCCGTGGGAGCAATTTTCT  
CTACTGTCTGTAGCTTCACAGAGGAGGCGCTGGAATGAACAAGAAGAGACATCTGGTCTGTGGCCACAGCACCCCT  
GAACGCCCCCTGATCTTGTGTGATCTTGGAAGCTAAGCTTGGTTGGGCCCGGTGAGTACGCGGAAGGGAAGAAGGG  
ACACCTGGCCATAGAAAACAGCTGAGGGTGTGTTGCTGTGTTCTGGATCAGGCCCTGCTTCAGAAGGGACTCCTG  
GAGGCCCATGTTCTTGATGCAACCTCGTGGCCAGGCCGGGAGCAGCTTGCTCTCAGAGGTGTTGACTATCT  
GGGTGTTCTTGGTAAC

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**FIGURE 2412**

MEEHGVTTQTEHMAITIEAHAVAQQVQQVHVATYTEHSMLSADSDSPSSPEDTSYDDSDILNSTAADEVTAHLAAAG  
PVGMAAAAATGKKRKRPHVFESNPSIRKQQTRLLRKLRLATLDEYTTTRVGQQAIVLCISPSKPNPVFKVFGAA  
PLENVVRKYKSMILEDLESALAEHAPAPQEVNSELPLTIDGIPVSVDKMTQAQLRAFIPEMLKYSTGRGKPGWG  
KESCKPIWWPEDIPWANVRSDVRTEEKQQRVSWTQALRTIVKNCYKQHGREDLLYAFEDQQTQTQATATHSIAHL  
VPSQTVVQTFSPNDGTVSLIQVGTGATVATLADASELPTTVTVAQVNYSADADGEVEQNWATLQGGEMTIQTTQA  
SEATQAVASLAEAAVAASQEMQQGATVTMALNSEAAAHAVATLAEATLQGGGQIVLSGETAAAVGALTGVQDANG  
LVQIPVSMYQTVVTSLAQGNGPVQVAMAPVTTTRISDSAVTMDGQAVEVVILEQ

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**FIGURE 2413**

GCCTCAAGAGGCGGATATTAACCTCCCAGGACGGAAGTTCCGGAGCCTTCAAACCTCTCGGGGAAGCAACTCGGCA  
GCGGACCAAGATGGCGGCGCCCTGTGAGGGACAAGCGTTTGCCGTAGGGGTTGAAAAGAAATTGGGGTGACAGTAGT  
TCGCTCCCCAGAAGGGACCCCCAGAAAATCCGGCAGCTGATAGATGAGGGGATTGCCCCGGAAGAGGGAGGCGT  
GGACGCGAAGGACACGTCTGCCACATCCCAGTCAGTTAATGGATCACCCCAAGCGGAACAACCTTCATTGGAATC  
TACAAGCAAAGAAGCCTTCTTTAGCAGAGTGGAAACATTTTCTTCTTTGAAATGGGCAGGTAAGCCCTTTGAGCT  
GTCTCCACTCGTCTGTGCAAAATATGGCTGGGTACAGTGGAATGTGATATGCTCAAGTGCTCTAGCTGTCAAGC  
TTTTCTCTGTGCCAGTTTACAACCAGCTTTTGACTTTGACAGATATAAGCAACGATGTGCTGAGCTGAAGAAAGC  
CTTGTGTACTGCCCATGAGAAGTTCTGTTTTCTGGCCAGACAGCCCATCCCCAGACCGATTGGGATGTTGCCCT  
GGATGAGCCTGCTATTCTTGTTAGTGAATTCCTAGATCGTTTTCAAAGCCTTTGTCACTTGGACCTCCAGCTTCC  
TTCCCTAAGGCCGGAGGACTTGAAAACATATGTGCTTGACAGAAGACAAGATCAGTCTTCTCTACACTTGCTTGA  
AGATGAACTTGATCACCGAACTGATGAGAGAAAACTACAATCAAATTAGGCTCAGACATCCAAGTCCACGTCAC  
TGCCTGTATTCTCTCTGTGTGTGGCTGGGCGTGTAGTTCTCTTTGGAATCCATGCAGCTCTCCCTGATAACATG  
TTCGCAATGTATGAGGAAGGTGGGGCTCTGGGGCTTCCAGCAGATTGAATCGTCCATGACTGACCTGGATGCATC  
CTTTGGCCTGACCAGCTCCCCAATCCCAGGCCTTGAGGGGCGACCAGAGCGCTTACCTCTGGTGCCTGAATCTCC  
TCGGAGGATGATGACCCGGAGCCAGGATGCCACTTTCTCCCCAGGCTCAGAGCAGGCTGAAAAGAGCCCTGGTCC  
CATTGTCTCTCGAACTCGGAGCTGGGACTCTTCCAGTCCTGTTGACCGTCCTGAGCCAGAGGCTGCTAGCCCCAC  
CACCAGAACTCGCCCAGTGACCCGAAGCATGGGAACAGGAGACACCCCTGGCCTGGAGGTACCATCTAGCCCTCT  
GCGGAAAGCCAAGCGAGCTCGCCTCTGCTCCTCCAGCAGTTCCGACACATCTTCCGAAGCTTCTTTGATCCCAC  
CTCTCAGCATAGAGACTGGTGCCCTTGGGTGAATATCACACTTGGCAAAGAAAGCAGGGAGAATGGTGGAACCTGA  
ACCAGATGCCAGCGCCCCAGCAGAGCCAGGCTGGAAAGCAGTGCTGACCATCCTCTTGGCGCACAAACAGTCTAG  
CCAGCCAGCTGAAACGGACTCCATGAGTCTCTCTGAGAAATCAAGGAAAGTATTCCGAATATTTCCGCAGTGGGA  
ATCTCTGTGCTCATGCTGAAGATACTCCAGCGCCTTCTGGAGATAGCTGGAATGAGAGTGACTTTTTGAAAAAT  
TAAGGCTGAGTTCTTTTCGGTCAGCTGACACTAAGTTTTTCTGTTCTGGGTAAATCATAAGGAGCCCCCTGCCA  
TAGCAAAGGCAGTGAGTGTCAACTATCTGCATCTGGCTGAGAGAGACCCGTTTCTTTTCAGGGATGTGGACAGGG  
TAAGGGCAGCAAGCATGTTTCTGTTAAAGGAGTGTGGGATTAACAGACTAGAAGGAAGACTAAGGACCTGACCAC  
CCATTTTCAGCATCTTCAATGTGGAGCAGTGTCTGAGGACTCTTCTATCCTAGGACTATGACAGTGTGTATTAAT  
AAAATATTTGCTAAGATTCTCA

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**FIGURE 2414**

GGCGCTGACGCCTGGCAGGGAGAAGGCGGCAGCACATGCTGGGCTCGGGGGCGATGGGCTTGTGCGCGGACCTGG  
CGACGCTCTAGCCCCGAGCCGCGTATTCGTGGCCGGGTCTCCCTGGGAACAGGGTGAAGGCCGAGAACCTCTGG  
CCTCAGGAAGCGCATGCGCAACCGGTTCTCCGAAACATGGAGTCCTGTAGGCAAGGTCTTACCTGAATCAGGATG

AGGGAGTGGTGGGTCCAGGTGGGGCTGCTGGCCGTGCCCTGCTTGCTGCGTACCTGCACATCCCACCCCTCAG  
CTCTCCCCTGCCCTTCACTCATGGAAGTCTTCAGGCAAGTTTTTCACTTACAAGGGACTGCGTATCTTCTACCAA  
GACTCTGTGGGTGTGGTTGGAAGTCCAGAGATAGTTGTGCTTTTACACGGTTTTTCCAACATCCAGCTACGACTGG  
TACAAGATTTGGGAAGGTCTGACCTTGAGGTTTTATCGGGTGATTGCCCTTGATTTCTTAGGCTTTGGCTTCAGT  
GACAAACCGAGACCACATCACTATTCCATATTTGAGCAGGCCAGCATCGTGGAAGCGCTTTTGCGGCATCTGGGG  
CTCCAGAACCGCAGGATCAACCTTCTTTCTCATGACTATGGAGATATTGTTGCTCAGGAGCTTCTCTACAGGTAC  
AAGCAGAATCGATCTGGTCCGCTTACCATAAAGAGTCTCTGTCTGTCAAATGGAGGTATCTTCTGAGACTCAC  
CGTCCACTCCTTCTCCAAAAGCTACTCAAAGATGGAGGTGTGCTGTCAACCATCTCACACGACTGATGAACCTC  
TTTGTATTCTCTCGAGGTCTCACCCAGTCTTTGGGCCGTATACTCGGCCCTCTGAGAGTGAGCTGTGGGACATG  
TGGGCAGGGATCCGCAACAATGACGGGAACCTTAGTCATTGACAGTCTCTTACAGTACATCAATCAGAGGAAGAAG  
TTCAGAAGGCGCTGGGTGGGAGCTCTTGCTCTGTAACATCCCCATTCATTTTATCTATGGGCCATTGGATCCT  
GTAAATCCCTATCCAGAGTTTTTGGAGCTGTACAGGAAAACGCTGCCGCGGTCCACAGTGTGATTCTGGATGAC  
CACATTAGCCACTATCCACAGCTAGAGGATCCCATGGGCTTCTTGAATGCATATATGGGCTTCATCAACTCCTTC  
TGAGCTGGAAAGAGTAGCTTCCCTGTATTACCTCCCCTACTCCCTTATGTGTTGTGTATTCCACTTAGGAAGAAA  
TGCCCCAAAGAGGTCTTGCCATCAAACATAATTCTCTCACAAAGTCCACTTTACTCAAATTGGTGAACAGTGTA  
TAGGAAGAAGCCAGCAGGAGCTCTGACTAAGGTTGACATAATAGTCCACCTCCCATTACTTTGATATCTGATCAA  
ATGTATAGACTTGGCTTTGTTTTTTGTGCTATTAGGAAATTCTGATGAGCATTACTATTCACTGATGCAGAAAGA  
CGTTCTTTTGCATAAAAGACTTTTTTTTAACTTTGGACTTCTCTGAAATATTTAGAAGTGCTAATTTCTGGCC  
CACCCCCAACAGGAATTCTATAGTAAGGAGGAGGAGAAGGGGGGCTCCTTCCCTCTCCTCGAATGACGTTATGGG  
CACATGCCTTTTAAAAGTTCTTTAAGCAACACAGAGCTGAGTCCTCTTTGTCATACCTTTGGATTTAGTGTTTCA  
TCAGCTGTTTTTTAGTTATAAACATTTTGTAAAAATAGATATTGGTTTAAATGATACAGTATTTTAGGTATGATT  
AAGACTATGATTTACCTATACATTATATATTTTATAAAGATACTAAACCAGCATAACCCTTACTCTGCCAGAGT  
AGTGAAGCTAATTAAACACATTTGGTTTCTGAATAAATTGAACTAAATCCAACTATTTTCTAAATCACAGGAC  
ATTAAGGACCAATAGCATCTGTGCCAGAGATGTACTGTTATTAGCTGGGAAGACCAATTCTAACAGCAAATAACA  
GTCTGAGACTCCTCATACCTCAGTGTTAGAAGCATGTCTCTTGTAGCTACAGTAGAGGGGAAGGGATTGTTGT  
GTAGTCAAGTCACCATGTGAATGTACACTGATTCCCTTTATGATGACTGCTTAACTCCCCACTGCCTGTCCCAGA  
GAGGCTTTCCAATGTAGCTCAGTAATTCCTGTTACTTTACAGACAGGAAAGTTCCAGAACTTTAAGAACAACT  
CTGAAAGACCTATGAGCAAATGGTGCTGAATACTTTTTTTTTTAAAGCCACATTTTATTGTCTTAGTCAAAGCAGG  
ATTATTAAGTGATTATTTAAAATTCGTTTTTTTTTAAATTAGCAACTTCAAGTATAACAACCTTTGAACTGGAATAA  
GTGTTTATTTTCTATTAATAAAAATGAATTGTGAC

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**FIGURE 2415**

MREWWVQVGLLAVPLLAAYLHIPPPQLSPALHSWKSSGKFFTYKGLRIFYQDSVGVVGSPEIVVLLHGFPTSSYD  
WYKIWEGLTLRFHRVIALDFLGFGFSDKPRPHHYSIFEQASIVEALLRHLGLQNRRLNLLSHDYGDIVAQELLYR  
YKQNRSGRLTIKSLCLSNGGIFPETHRPLLLQKLLKDGGVLSPILTRLMNFFVFSRGLTPVFGPYTRPSESELWD  
MWAGIRNNDGNLVIDSLLQYINQRKKFRRRWVGALASVTIPIHFIYGPLDPVNPYPEFLELYRKTLPRSTVSILD  
DHISHYPQLEDPMGFLNAYMGFINSE

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**FIGURE 2416**

TGCTTGCTACCTAGAAAGGGAGACGAGGAAACACACATGTAGCTGAGCAAACCTAAACCAGTGCACCGCTGAAAACG  
AGAGAAAAAGGATACAAACAGTCCAGAAACAATGTACTTTCTAGCATCATAAGCTGAAGTCTGAAGCTCCACTG  
ACCTGTAGAGAAGCTCCTGAGCAACAATATCTCCATAGTCATGAGAAAGAAGGTTGATCCTGCGGTTCTGGAGCC  
CCAGATGCCGCAAAAGCGCTTCCACGATGCTGGCCTGCTCAAATATGGAATAGTGATGTGGTCTCTGAGGAAAGG  
AAAGCCCACATACACAGGATGAAGTCATGAGGACAGCTCTCTCTGCCAGCCTGACCCTCATAGTCTGCGTCTGCC  
CCCACACCCCATCACCAGCCCCACATAGGTGCTGCTTACCGGTTTGTCACTGAAGCCAAAGCCTAAGAAATCAAG  
GGCAATCACCCGATGAAACCTCAAGGTCAGACCTTCCCAAATCTACAAGAAAGAAACGATGATTTGGGCTTTCTG  
CTCCTGCCCTTCCCTTTTACCAGACCTACAGTTGCACAGGAGCTTCAGCCCTATCTTGGCTTAACAGACTTCCAT  
AAAGAGAAAACGCCATGAAACTACCACAGGTCCCACAGATGATCCTCTTGGAAAATGCTTTATTCCTGGTAATTA  
ATCCCTGTTGAGGGAGGGTAACCTTGGCAGTGATCCCTTCCAGAGTGCCAAGGAGTTGTTTATTCCTTCAGTAAA  
TAAGGAACAGTTCAACATTTAATGTTTTTTTTTAAAAGCAATTCAAATGTGCAAGAGCCTTCTGGTGCTGACAACAA  
AATCCTTGAGGTTTTTTAAATTTTTATTAATAAAAAAATTTTTTTTTTGAGACAGACTCTCGCTCTGTCACCTAGGC  
TGAAGTGCAGTGGTGCAATCTCAGCTCACTGCAACCTCTGCCTCCCGGGTTCAAGCGATTCTCCTGCCTCAGCCT  
CCCAAGTAGCTGGGATTACAGGCTTGTGCCACCATGCCTGGCCAATTTTTATACTTTTAGTAGAGATGGGGTTTT  
GCCATGTTGGCCTGGCTGGTCTCAAACCTCCTGACCTCAGGTATCCTCCCACCTCAGCCTCCCAAAGTGCTAGGA  
TTTGAGCCCCCGCGCCCGCGGAGATTTTTTAAGACATAGTAGGACGTAGAAGTCTGACTTCATTACCTTGTACC  
AGTCGTAGCTGGATGTTGGAACCGTGTAAGACACAACCTATCTCTGGACTTCCAACCACACCCACAGAGTCTA  
GGAAGAAGGAAAGTACAATCAATTATGCCAAATCCCTATAAAAAATAACCTCGAAGATGTTAAAAATCTAAGTAATC  
TGATACAAAGAACAAGCAACTGTGACCAAAATGACATTAATAATGACACAATTATTTGTAATAATGTAAGCTTAACCT  
GCGTTAGGTGAGAACAGGCCTTTTCTCCTTTCAATCTGTATATTAATAACATTGTAATAATCATGCTATGTGAAAA  
TACTTGAAGGCACCTTGTTTACTTTACCTAGGTGTTTTTAAACAGCATCTCCCCATTTCTCCTTTTGTCTGTGA  
ATATGCAAATTTTTTTCAGTGAAAAGTAAATTTTTCAGTTAAAGCATATGATCACAACACATAAACTACAAATTCT  
TTGTACTTTATCATGAATGGCCTCACAGAAATTCTCTAAGATACAGCAACTATTCCCAAGGAACACCTTTAGCTT  
ATGCTGTTTGCTCAGCACTTTTTATTTCAGCAGGAGACCCAATCTAACATCAAAAACATAATAAACTATTACAAA  
ATCCTGTCAACTATAAAAAGGGCTTAATCAACATAAACATGAACTTTTTTAATGCATATGACAATATGGAAGCAT  
TCAGCATCATCTAAATTAGGTAAACATTTAGACAATATTAACCTTGCTAATAGTATGGGATTAGAACAGGTATAT  
TCATATACTGCCAGTGACATGAAAATTTGGTAATAAGGTTTTTCAAAAATAATTTAGAAGCAGTTAAAAATGTAT  
ATACTTTAGCCTAAGAGTTTTGTTCTTGAGAATCTGTGCAAATAAAATCATTCCATTTATACAAGTAGTATAGTT  
TGAAAATGTAAGGAAAAATAAACTGTATGGACATGAAGCTTTTACTTCAACATTAGTTTTCTAAAACAGTAAAA  
CTGGAAGTAACCCAAGCCAACATAATAAAAAATTGTATACTTACTTAATTGAATATAGCAAATGAGAGGAGGTCAG  
GAGCAATAATGAAAAACGGTTTTATGACAAACATTTTTCGTTATTGCTCTTGACCCCGCTCAAAACAAATCATTT  
CCAATCTGTTTCTCAGTTTTCTTACCTATAAAAAATGAGGTTAATGGCACCTATCTCCAAATGCTGTTGTAAAGATT  
AAACAATGAAGGCTGAAAACATAACTCAGTGCCTGGCATATGGTAATTACTTGATAAGTAGTGGTCATAATAATC  
ATCATCACTAGCAAATTAATTTATATAATGGTATCAAGACTTAAATCACAGTTACACTACAAATAATCTACAGAA  
AAAAATGAAATCAGGGATGGTAAGGAGAGAGAACCAATGGTGGTTATATCTATTAATATTTTATATATTACCTGAC  
AGGTTGCTC

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**FIGURE 2417**

TTTCCAGCCCCGGCCCCGGACCCTGCAGCTGCAGAGATGTTGATGCCTAAGAAGAACTGGATTGCCATTTATGAA  
CTCCTTTTTTAAGGAGGGAGTCATGGTGGCCAAGAAGGATGTCCACATGCCTAAGCACCCGGAGCTGGCAGACAAG  
AATGTGCCCCAACCTTCATGTCATGAAGGCCATGCAGTCTCTCAAGTCCCGAGGCTACGTGAAAGAACACTTTGCC  
TGGAGACATTTCTACTGGTACCTTACCAATGAGTGTATCCAGTATCTCCGTGATTACCTTCATCTGCCCCCGGAG  
ATTGTGCCTGCCACCCTACGCCGTAGCCGTCCAGAGACTGGCAGGCCTCGGCCTAAAGGTCTGTATATGAGGAGT  
GCTGTGCTACCTGGTGCCGACAAGAAAGCCGAGGCTGGGGCTGGGTCAGCAACCGAATTCTAGTTTAGAGGCGGA  
TTTGTTGTGGACGTGGTCAGCCACCTCAGTAAACTGGAGAGGATTCTTTTGCATTGAATAAATTTACAGCCAA  
AAAA

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**FIGURE 2418**

CTCTTTCTGCTGCTCCCCAGCTCTCGGATACAGCCGACACCATGGGTTTCGGAGACCTGAAAAGCCCCACCGGCC  
TCCAGGTGCTCAACGATTACCTGGCGGACAAGAGCTACATCAAGGGGTATGGTGCCATCACAAAGCAGATGTGGCA  
GTATTTGAAGCCGTGTCCGGCCCCACCACCTGCCGACTTGTGTCATGCCCTACGTTGGTATAATCACATCAAGTCT  
TACGAAAAGGAAAAGGCCGGCCTGCCAGGAGTGAAGAAAGCTTTGAGCAAGTATGGTCCTGCCGATGTGGAAGAC  
ACTACAGGAAGTGGAGCTACAGACAGTAAAGATGATGATGACATTGATCTCTTTGGATCCGATTATGAGGAGGAA  
AGTGAAGAAGCAAAGAGGCTAAGGGAAGAACATCTTGACACAATATGAATCAAAGAAAGCCAATGATGAGACAGAT  
ATGGCGAAATTAGAGGAGTGTGTCAGAAGCATTCAAGCAGACGGCTTAGTCTGGGGCTCATCTAAACTAGTTCCA  
GTGGGATACGGAATTAAGAACTTCAAATACAGTGTGTAGTTGAAGATGATAAAGTTGGAACAGATATGCTGGAG  
GAGCAGATCACTGCTTTTGGAGGACTATGTGCAGTCCATGGATGTGGCTGCTTTCAACAAGATCTTAAAAATCCATC  
CTGGATCATG



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**FIGURE 2419**

MVPSQADVAVFEAVSGPPPADLCHALRWYNHIKSYEKEKAGLPGVKKALSKYGPADVEDTTGSGATDSKDDDDID  
LFGSDYEEEESEEAKRLREEHLAQYESKKANDETDMAKLEECVRSIQADGLVWGSSKLVPVGYGIKKLQIQCVVED  
DKVGTDMLEEQITAFEDYVQSMDVAAFNKI

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**FIGURE 2420**

CTTCTTTGCGGAATCACCATGGCGGGCTGGGACCCTGTACACGTATCCTGAAAACCTGGAGGGCCTTCAAGGCTCT  
CATCGCTGCTCAGTACAGCGGGGCTCAGATCCGCGTGCTCTCCGCACCACCCCACTTCCATTTTGGCCAAACCAA  
CCGCACCTCTGAATTTCTTCGCAAATTTCTGCGGGCAAGGTCCAGCATTGAGGGTGATGATGGATTCTGTGT  
GTTTGAGAGCAACGCCATTGCCTACTATGTGAGCAATGAGGAGCTGCGGGGAAGTACTCCAGAGGCAGCAGCCCA  
GGTGGTGAGTGGGTGAGCTTTGCTGATTCCGATATAGTGCCCCAGCCAGTACCTGGGTGTTCCCCACCTTGGG  
CATCATGCACCACAACAAACAGGCCCACTGAGAATGCAAAGGAGGAAGTGAGGCGAATTCTGGGGCTGCTGGATGC  
TACTTGAAGACGAGGACTTTTCTGGTGGGCGAACGAGTGACATTGGCTGACATCACAGTTGTCTGCACCCTGTT  
GTGGCTCTATAAGCAGGTTCTAGAGCCTTCTTTCCGCCGGGCCTTTGCAATACCAACCGCTGGTTCCTCACCTG  
CATTAAACCAGCCCCAGTTCCGGGCTGTCTTGGGGGAAGTGAAGTGTGTGAGAAGATGGCCCAGTTTGATGCTAA  
AAAGTTTGCAGAGACCCAGCCTAAAAAGGACACACCACGGAAAGAGAAGGGTTACGGGAAGAGAAGCAGAAGCC  
CCAGGCTGAGCGGAAGGAGGAGAAAAAGCGGCTGCCCTGCTCCTGAGGAGGAGATGGATGAATGTGAGCAGGC  
GCTGGCTGCTGAGCCCAAGGCCAAGGACCCCTTCGCTCACCTGCCCAAGAGTACCTTTGTGTTGGATGAATTTAA  
GCGCAAGTACTCCAATGAGGACACACTCTCTGTGGCACTGCCATATTTCTGGGAGCACTTTGATAAGGACGGCTG  
GTCCCTGTGGTACTCAGAGTATCGCTTCCCTGAAGAACTCACTCAGACCTTCATGAGCTGCAATCTCATCACTGG  
AATGTTCCAGCGACTGGACAAGCTGAGGAAGAATGCCTTCGCCAGTGTATCCTTTTTTGAACCAACAATAGCAG  
CTCCATTTCTGGAGTCTGGGTCTTCCGAGGCCAGGAGCTTGCCTTTCCGCTGAGTCCAGATTGGCAGGTGGACTA  
CGAGTCATACACATGGCGGAAACTGGATCCTGGCAGAGAGGAGACCCAGACGCTGGTTCGAGAGTACTTTTCTTG  
GGAGGGGGCCTTCCAGCATGTGGGCAAAGCCTTCAATCACGGCAAGATCTTCAAGTGAACATCTCTTGCCATCAC  
CTAGCTGCCTGCACCTGCCCTTACGGGAGATGGGGGTCATTAAAGGAACTGAACATTG

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**FIGURE 2421**

MAAGTLYTYPENWRAFKALIAAQYSGAQIRVLSAPPHFHFQTNRTSEFLRKFPAGKVPAFEGDDGFCVFESNAI  
AYYVSNEELRGSTPEAAAQVVQWVSFADSDIVPPASTWVFPTLGIMHHNKQATENAKEEVRILGLLDAYLKTRT  
FLVGERVTLADITVVCTLLWLYKQVLEPSFRRAFRNTNRWFLTCINQPQFRAVLGELKLCEKMAQFDAKKFAETQ  
PKKDTPRKEKGSREEKQKPOAERKEEKAAAPAPEEEMDECEQALAAEPKAKDPFAHLPKSTFVLDEFKRKYSNE  
DTLSVALPYFWEHFDKDGWSLWYSEYRFPEELTQTFMSCNLITGMFQRLDKLRKNAFASVILFGTNNSSSISGVW  
VFRGQELAFPLSPDWQVDYESYTWRKLDPGREETQTLVREYFSWEGAFQHVKGAFNHGKIFK

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**FIGURE 2422**

ATCACCATGGCGGCTGGGACCCTGTACACGTATCCTGAAAACCTGGAGGGCCTTCAAGGCTCTCATCGCTGCTCAG  
TACAGCGGGGCTCAGATCCGCGTGCTCTCCGCACCACCCCACTTCCATTTTGGCCAAACCAACCGCACCTCTGAA  
TTTCTTCGCAAATTCCTGCCGGCAAGGTCCCAGCATTTGAGGGTGATGATGGATTCTGTGTGTTTGAGAGCAAC  
GCCATTGCCTACTATGTGAGCAATGAGGAGCTGCGGGGAAGTACTCCAGAGGCAGCAGCCCAGGTGGTGCAGTGG  
GTGAGCTTTGCTGATTCCGATATAGTGCCCCCAGCCAGTACCTGGGTGTTAGCCCAAGGCCAAGGACCCCTTCGC  
TCACCTGCCCAAGAGTACCTTTGTGTTGGATGAATTTAAGCGCAAGTACTCCAATGAGGACACACTCTCTGTGGC  
ACTGCCATATTTCTGGGAGCACTTTGATAAGGACGGCTGGTCCCTGTGGTACTCAGAGTATCGCTTCCCTGAAGA  
ACTCACTCAGACCTTCATGAGCTGCAATCTCATCACTGGAATGTTCCAGCGACTGGACAAGCTGAGGAAGAATGC  
CTTCGCCAGTGTATCCTTTT

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**FIGURE 2423**

GAAGGCCGCACCGTACTGGGCGGGGTCTGGGGAGCGCAGCAGCCATGGCAAGCCGTCTCCTGCTCAACAACGGC  
GCCAAGATGCCCATCCTGGGGTTGGGTACCTGGAAGTCCCCTCCAGGGCAGGTGACTGAGGCCGTGAAGGTGGCC  
ATTGACGTCGGGTACCGCCACATCGACTGTGCCCATGTGTACCAGAATGAGAATGAGGTGGGGGTGGCCATTGAG  
GAGAAGCTCAGGGAGCAGGTGGTGAAGCGTGAGGAGCTCTTCATCGTCAGCAAGCTGTGGTGCACGTACCATGAG  
AAGGGCCTGGTGAAAGGAGCCTGCCAGAAGACACTCAGCGACCTGAAGCTGGACTACCTGGACCTCTACCTTATT  
CACTGGCCGACTGGCTTTAAGCCTGGGAAGGAATTTTTCCCATTTGGATGAGTCGGGCAATGTGGTTCCCAGTGAC  
ACCAACATTCTGGACACGTGGGCGGCCATGGAAGAGCTGGTGGATGAAGGGCTGGTGAAAGCTATTGGCATCTCC  
AACTTCAACCATCTCCAGGTGGAGATGATCTTAAACAAACCTGGCTTGAAGTATAAGCCTGCAGTTAACCAGATT  
GAGTGCCACCCATATCTCACTCAGGAGAAGTTAATCCAGTACTGCCAGTCCAAAGGCATCGTGGTGACCGCCTAC  
AGCCCCCTCGGCTCTCCTGACAGGCCCTGGGCCAAGCCCGAGGACCCTTCTCTCCTGGAGGATCCCAGGATCAAG  
GCGATCGCAGCCAAGCACAAATAAACTACAGCCCAGGTCTGTATCCGGTTCCCCATGCAGAGGAACTTGGTGGTG  
ATCCCCAAGTCTGTGACACCAGAACGCATTGCTGAGAACTTTAAGGTCTTTGACTTTGAACTGAGCAGCCAGGAT  
ATGACCACCTTACTCAGCTACAACAGGAAGTGGAGGGTCTGTGCCTTGTGAGCTGTACCTCCCACAAGGATTAC  
CCCTTCCATGAAGAGTTTTGAAGCTGTGGTTGCCTGCTCGTCCCCAAGTGACCTATACCTGTGTTTCTTGCCTCA  
TTTTTTTCCCTTGCAAATGTAGTATGGCCTGTGTCACTCAGCAGTGGGACAGCAACCTGTAGAGTGGCCAGCGAGG  
GCGTGTCTAGCTTGATGTTGGATCTCAAGAGCCCTGTCAGTAGAGTAGAAGTCTCTTCCAGTTTGCTTTGCCCTT  
CTTTCTACCCTGCTGGGAAAAGTACAACCTGAATACCCTTTTCTGACCAAAGAGAAGCAAAATCTACCAGGTCAA  
AATAGTGCCACTAACGGTTGAGTTTGGACTGCTTGGAACTGGAATCCTTTCAGCAAGACTTCTCTTTGCCTCAAA  
TAAAAAGTGCTTTTGTG

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**FIGURE 2424**

MASRLLLNNGAKMPI LGLGTWKSPPGQVTEAVKVAIDVGYRHIDCAHVYQNENEVGVAIQEKLREQVVKREELFI  
VSKLWCTYHEKGLVKGACQKTLSDLKLDYLDLYLIHWPTGFKPGKEFFPLDESGNVVPSDTNILD TWAAMEELVD  
EGLVKAIGISNFNHLQVEMILNKPGLKYKPAVNQIECHPYLTQEKL IQYCQSKGIVVTAYSPLGSPDRPWAKPED  
PSLLEDPRIKAIAAKHNKTTAQVLIRFPMQRNLVVIPKSVTPERIAENFKVDFELSSQDMTTLLSYNRNWRVCA  
LLSCTSHKDYPFHEEF

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**FIGURE 2425**

GGCACGAGGCCTGAGCTCAGGAGTTTGAGACCAGCCTGTCTCTACTAACAATATAAAAAATTAGCTGGGAGTCACG  
GTGGGCGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATTGCTTGAACCCAGGAGACAGAGGTTGTA  
GTGAGCTGAGATCGCACCCTGCACTCTAGCCTTGGCAACAGTGCAAGACTGTCTCAAAAACAGCAACAGAGAGC  
AGGACGTGAGACTTCTACCTGCTCACTCAGAATCATTCTGCACCAACCATGGCCACGTTTGTGGAGCTCAGTAC  
CAAAGCCAAGATGCCCATTGTGGGCCTGGGCACTTGGAAGTCTCCTCTTGGCAAAGTGAAAGAAGCAGTGAAGGT  
GGCCATTGATGCAGGATATCGGCACATTGACTGTGCCTATGTCTATCAGAATGAACATGAAGTGGGGGAAGCCAT  
CCAAGAGAAGATCCAAGAGAAGGCTGTGAAGCGGGAGGACCTGTTTCATCGTCAGCAAGTTGTGGCCCACTTTCTT  
TGAGAGACCCCTTGTGAGGAAAGCCTTTGAGAAGACCCTCAAGGACCTGAAGCTGAGCTATCTGGACGTCTATCT  
TATTCCTGAGCCACAGGGATTCAAGTCTGGGGATGACCTTTTCCCCAAAGATGATAAAGGTAATGCCATCGGTGG  
AAAAGCAACGTTCTTGGATGCCTGGGAGGCCATGGAGGAGCTGGTGGATGAGGGGCTGGTGAAGCCCTTGGGGT  
CTCCAATTTAGCCACTTCCAGATCGAGAAGCTCTTGAACAAACCTGGACTGAAATATAAACCAGTGAATAACCA  
GGTTGAGTGTACCCATACCTCACACAGGAGAACTGATCCAGTACTGCCACTCCAAGGGCATCACCGTTACGGC  
CTACAGCCCCCTGGGCTCTCCGGATAGACCTTGGGCCAAGCCAGAAGACCCTTCCCTGCTGGAGGATCCCAAGAT  
TAAGGAGATTGCTGCAAAGCACAAAAAACCGCAGCCAGGTTCTGATCCGTTTCCATATCCAGAGGAATGTGAT  
TGTCATCCCCAAGTCTGTGACACCAGCACGCATTGTTGAGAACATTCAGGTCTTTGACTTTAAATTGAGTGATGA  
GGAGATGGCAACCATACTCAGCTTCAACAGAACTGGAGGGCCTGTAACGTGTTGCAATCCTCTCATTGGAAGA  
CTATCCCTTCGATGCAGAATATTGAGGTTGAATCTCCTGGTGAGATTATACAGGAGATTCTCTTTCTTCGCTGAA  
GTGTGACTACCTCCACTCATGTCCCATTTTAGCCAAGCTTATTTAAGATCACAGTGAACCTTAGTCCTGTTATAGA  
CGAGAATCGAGGTGCTGTTTTAGACATTTATTTCTGTATGTTCAACTAGGATCAGAATATCACAGAAAAGCATGG  
CTTGAATAAGGAAATGACAATTTTTTCCACTTATCTGATCAGAACAAATGTTTATTAAGCATCAGAACTCTGCC  
AACACTGAGGATGTAAAGATCAATAAAAAAATAATAATCATAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2426**

MATFVELSTKAKMPIVGLGTWKSPLGKVKEAVKVAIDAGYRHIDCAYVYQNEHEVGEAIQEKIQEKAVKREDLFI  
VSKLWPTFFERPLVRKAFEKTLKDLKLSYLDVYLHWPQGFKSGDDLFPKDDKGNAIGGKATFLDAWEAMEELVD  
EGLVKALGVS NFSHFQIEKLLNKPGLKYKPV TNQVECHPYLTQEKL IQYCHSKGITVTAYSPLGSPDRPWAKPED  
PSLLEDPKIKEIAAKHKKTAAQVLIRFHIQRNVIVIPKSVTPARIVENIQVFDFKLSDEEMATILSFNRNWRACN  
VLQSSHLEDYPFDAEY



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**FIGURE 2427**

CAGAGTTTGGGCGCCAGGCGAGACGGCAGGGCTTAAAGTTCCGGGAATCAAAGATCAACTCCCCTGAGGACAAA  
TGGACCTGTAATTCCGGGTGTGACGAGAGAACGAGATTTACCTTCCTGAATTAAAAACAGGTCATTAAGCTTGG  
GCCCTGACTTTTCTTTGTGAGAAGGTACAGAGATGGAAACCTTACAATCCGAGACTAAAACGAGGGTCCTTCCCT  
CATGGCTGACAGCCCAGGTGGCTACAAAGAATGTGGCACCAATGAAGGCCCCCAAGAGGATGAGAATGGCAGCAG  
TGCCAGTGGCAGCAGCAAGACTCCCTGCGACAAGGACTGTGTACTGCATGAATGAGGCTGAGATAGTTGATGTTG  
CTCTGGGAATCCTGATTGAGAGCCGCAAACAGGAAAAGGCCTGCGAGCAGCCGGCCCTGGCGGGGGCTGATAACC  
CAGAGCACTCCCCCTCCCTGCTCCGTGTGCGCTCACACAAGTTCTGGGAGCAGCAGTGAGGAAGAGGACAGTGCGA  
AACAGGCACTGGCTCCAGGCCTCAGCCCTTCCAGAGGCCGGGGGGTTCCAGCTCTGCCTGTAGCAGGAGCCCTG  
AGGAGGAGGAGGAAGAGGATGTGCTGAAATACGTCCGGGAGATCTTTTTCAGCTAGGGGCATAAACTGTGCACTGA  
ACTGTCTGCCGAGAGCAGCTGGAGGACAGCTGAGCTTCCACTGGTGCTGCTGGGCCGCCCGCCTGTGGGAATGGG  
GCTCTCTGTGCTCCTACCTTTGTGCCTTCTTGGGCCTGGCAGATTACCTCAGGCCAGAAGCCCTGGACACTCC  
GGCCCTTGGGGCTGCCGTTCTGAGTGTGCGGAAGGCAGGACTCAAATGAGATCCCATTGACTCCCTCTGTATG  
TACTGTGCCCTCTCCTGGCTCTTGAGGCTCTGGAGTCCCAATTGTCTGTGTTAGTCAGTGACCAGGTTCCAGGGA  
AAATGATGTATGTGGTGGTCCAACCTTACTGGAACCAAAGAGACAGTACTTTGCAAAGAAAAGGATCACTGCCAG  
GTGCACTGGAATTGCTACAGTTTAGTCCGCATGATCTCTCCTGAAGGAGGAAGCCTGTTTCAAAAATAGTTTCCA  
TCATGAGTCTATCAATGAGCTCCCACCTCTCCAGCCAGCCTAGAAAGCAAACGAGCTGCCACAGTTCTCTGCCC  
TGTCTGGGAGGTTGAGGCCACAGTGTATAGACTGGTAAGCCAGACAGGCCTCCTCCCGCAAGCTGCTACCTTGCT  
TTCACCTGTACCTTGGTCCCCGGGCAGCTAGCTATAAAGCAAGAGGGACAGGAGCCCAGAAGAGACACTGAGGAC  
AAGAGATCACACCAGAGTACATGTCTCTGCCTCTGTTTTCAGTGTGGCTTTGGACAGGAATATATGAATAAATCA  
CTGCCATACAGGTTTTCCAATACACAAGTGCTAGAAAATACACACAATTCCCCAATGAAAAAAAAAAAAAAAAA

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**FIGURE 2428**

MKAPKRMRAAVPVAAARLPATRTVYCMNEAEIVDVALGILIESRKQEKACEQPALAGADNPEHSPPCSVSPHTS  
SGSSSEEDSGKQALAPGLSPSQRPGGSSSACSRSPEEEEEDVLKYVREIFFS

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**FIGURE 2429**

GAGGTAGGCTCGGACCGGCCCGGGAGCTGCTGCAGTCCTTCGCGCCCTCCTCGCCCTCCCCACCGACATCATGC  
TCCAGTTCCTGATACCAAACCTGGCTAAAAAATTGAAGAAATTA AAAAGGACTTGGATGCCAAGAAGAAACCCC  
CTAGTGCATGAGACTGCCTCCAGCACTGCCTTCAGGATATACTGATTCTACTGCTCTTGAGGGCCTCGTTTACTA  
TCTGAACCAAAAGCTTTTGTTCGTCCTCAGCCTCAGCACTTCTCTTCTTTGCTAGACCCTGTGTTTTTTGCTT  
TAAAGCAAGCAAAATGGGGCCCCAATTTGAGA ACTACCCGACATTTCCAACATACTCACCTCTTCCCAT AATCCC  
TTTCCA ACTGCATGGGAGGTTCTAAGACTGGAATTATGGTGCTAGATTAGTAAACATGACTTTTAATGAGTAGTG  
TCTTCTTTATCGTTTGCGATTTTTTACTACCTTTTTTCAAAGAAAAATTGATGAGTTTTGTATAGCTGGTCAGAT  
ACAAATAATAGTGACTTCACAGTTTAGTAATTATAATGGGTACTTGTTAAACATTGGTACTAAATTATGTTGCT  
GCAAAGTAATTA AAATTAGTATCTAGAGCTAGTTTCTGGTGAATTATTCATTTATTTTGTACTGTTGTTAGGCAG  
CTCTGTAGTTGCTAATTTAACCAATAAGTCAATTTGCTATTCATGAAGAAACGATTCTGAGAATCCTGTCAGGAA  
TTGGGGAATGAAAAAATACACAAAATAATGGTCTTTGTCCCAGTAGAGTTCATAGTCTATTTAGTGTGCATGTTT  
TTCTTAATGATGTATTTGATCTGACTTTTTTCTCTC AAAAGAATCATACTTGGGATTACAGGTACATTTGAT  
GTTATATGATGGATAAGTGAAAAGTTTTTAAAGGAGATTTTATACCTTTTCACATTAAAAAAGGTATTTATATTA  
TTACTTTGTAGTGATTGTCTTAAGAAAAAATATAGCCCAATGTATAGTAAATCAGCAGCTCAAGAAGAATTTTC  
TGCTTCTCTTTGTAGTTGATGCTTTGTTTTTCTGTCAGTCAGAAATTCCTTGATTTGTCAAATGTATAATCAG  
CTTGATTGTTTTTAAATTA AAAAAAATTTGAATAATTA ACTTTTGCCATGGGACAAGATACAAAAGTAATTTCA  
TATAAAGGCCTCTCCCACCCCTGTTCTCTGGCTCCTGGCTCCTGTTTGACAAGTTACTGTTACCACCTTCGCCTT  
ATACTTTTGAGAAAGAGTCTGTGCCTAAACAAACACGTGTAACACAAATAGTAAC TATACATGGAGGTCTAGCCC  
TCACCTTTTTTTTTCTTTTTTTTTCTTTTTTAATGGAGATCATTCTATACCAGCATGTAAGTAGCAAGGAACCTCA  
TTCTTTTTTTGGCTGCCTAAAATTTTTTTGAATAGATATAACATAATTGATTTAATCTGCTACTGGTGAATGCTT  
AGGTTGTTCTTTTGCTATTACAGTGATAACTTCAATCCTAATGTTATTAAGCATATCGATT CAGGGTATAGCTAT  
AAGATGAAGTCCTAAAAGTATAATTTAGACTAAATACAAATACCCATTTGCTAGCTGTTTTGTTTCAGAGGACT  
TGTTGAGCAGCTTCAC TAATAATGCCATTTTTGAAGACATGGCAGGTCAGAATCAATAAACTGGAAGAATTGTT  
CAGAGCATCTTTTTTCAGACAGTGATGACATTGATTCTGTATATGATAAAGTGATTCTGCTTCTCTTGACA ACT  
TGCATCTCTCCTACATGGAAGTAAGTTTTATTCCTGTCAATGTTGTCTTTGTGTGTGACAGATTAGGATTAAATT  
ATGGTTTGACTTTTCTTAGCAGCGTGATCATGGGCAAGTGGCTTATTTTTTTTTTTTTTTTGAGACAGAGTCTC  
ACTCTGCTGCCCAGGCTGGAGTGCAGTGGCACAGTCTTGGCTCACTGCAACTCCTGCCTCCCGGTCCAAGTGATT  
CTCGTGCTGCAGCTTCTCAAGTAGCTGGCATCACCACACCTGGCTAATTTTTGTATTTTTTAGTAACGACGAG  
GTTTCACCATGTTGGCAAAGCTGGTCTCAAATTCCTGGCCTCAAGTGATCTGCCCACCTCAGCCTCCCAAAGTGT  
TGGGATTACAGGCGTGAGCCACTGCGCCCGGCTTTTTTAACTTTTAGATTCATTTAATAGGTAAATTGCATGTC  
ACGGGTTTGTAGCTTATTCTTT CAGAACTCTTGCAATTATCTGTAGACGTGGACGTAAATATCCACCTCATAGGG  
TTTTCATAAAAAATAATTGAGATAATGTATGTAATGTTTCACAGTGCTTTGCAGACTATCTAATAAATAGTAGCT  
ATTAGTACAAA

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**FIGURE 2430**

CGCGGAGGAGAAGAGGAAGAGGAAGTTGGGGGAGGGTCCTAGCGGGGAGTGAACCGGAAGTGTAAGGTTCTCTGC  
CTCTCCTCGGCCAGGCGGAACCTCTCTGCTGGGCCCCGGTGGCCGCAAAAGAACTTTCTTTCTCCCGCCCGAACGG  
TCGCCGCGGCCAACTGCCTCGCCCGCCTGGCAGCCTAACCTCCTTCTCTTCTCTCTCTCTCCGGCTTCGCGCGG  
CCCTGCCTCCCTCTCGCCCGGCGGCATCCGCTTGCTGCTGCCACCGCCTCCTCATCTTCTGCCCGGCCAACCGGC  
CTGCCCCGCTGCAGTGATGTGCGACAAGGAGTTCATGTGGGCCCTGAAAAACGGAGACTTGGATGAGGTGAAAGA  
CTATGTGGCCAAGGGAGAAGATGTCAACCGGACACTAGAAGGTGGAAGGAAACCTCTTCATTATGCAGCAGATTG  
TGGGCAGCTTGAAATCCTGGAATTTCTGCTGCTGAAAGGAGCAGATATTAATGCTCCAGATAAACATCATATTAC  
TCCTCTTCTGTCTGCTGTCTATGAGGGTCATGTTTCTGTGTGAAATTGCTTCTGTCAAAGGGTGCTGATAAGAC  
TGTGAAAGGCCCAGATGGACTGACCGCCTTTGAAGCCACTGACAACCGGCAATCAAAGCTCTTCTCCAGTGATG  
GATGGATGGACTGATAACTCCGGAAGAATGACTCTCCTGTGGCCTCACACTGCTGCCTGTCTGTCTGTCTCATCTC  
TATCTGCCAGCTTCTTCAGCTAAATACTTTAAGAGGGGTGAGGGGAGAGAGAAATTCATAACAAATCCGACTACC  
AGAAAAAATAATTGTTTTGGAGGAGGGGCAAAAGGAACCATGATCAGGCTTTTACTGGGATTCTGATCAAGTA  
AGCCTCTTCCCTTTCTAATAAAATATACACCTTATACCCAAGGGAGAGCAAAGACAAAATACACCAGTAACATTT  
GACCTTTTTCAGCTCCCTAGCTAATTTATTAGATTGTGTTGAAGGTCTGATTCTACAAAGGCCAACTCTACATATT  
TGGTAGCCCTAACTGTCTGAGCAGTAGTGGCTGCTGTGATGTAACTTAGGGTGCTGAGATAAGCAATTAGCTCT  
AGCCTTCTGCCTTAAGAATGCACTCTACTGGGGATTTCTTGGCATAAGTTAAGAGCGCTGCCTATAAGGTTGGTGA  
CCAAATCTTTCCTCGGTGACTTTAAGCTTTATGTGAAAGCTTAGTTAAGGTGAGGAGGGGCACACTCCTAAATTG  
CTGGATGACTGAACTTTGGATTTTCTCTCCCTTTTACATGGATTTCATGTCTCTTTAGATAAAACTGACTAGTT  
TTATTTATAAAATCTTAAGTTTTGGAAGTCTAAAGGAGAAACCATTCAGTATGCATATTTTTTCTCCTCTAGA  
TTCATACATTTATATAGCATTGAAACACTTTCAAACCTCCTGCTGGTAGTAAAAGGGGATTTAAAAATAGAATCAT  
AGCCATAAGCCTGTTAGTATCATATGAAGAGAGAACAGTTATCTTAGTACCTATGGATTTTCTTTATTTGCTGTT  
TGAATGGATTGACCTTGGTTATGTGTTGAGAATTAAGGAACATCTTTGAAATGCCTCTCTCAGACCCATCTTGG  
AGGCTGATTACTTACTGCACCAAAGCTATCACTGGGGTGAGATTACTGTTTGGACAAATTTAGCCCCATCCCTT  
CAAAAATACACTTGTAACCAGGTTTCCAGAGTTGTTGATAGGCTTCTGCTGAACATATGCCAACCCACCTGCAT  
AATATATTTTTGTTGCTTTTATAAATCATGCATTACATAAAGTGTGACAACTTCAAATGTATTCTCTGTTCTTG  
GAATACAGTGCCCTAAAATGGTGTCTTATGACCTGCAGAAAATATTTACACATAAATAAGCAATTGCAGTGTTT  
TGCATGCAAAATATAAAAAATTTAAATTGCTGATTCTATTTTGTAAATGGAGAAACAATCATATCTTTCTAAG  
CGGTAATGGAGGAAGACTAGTGCTTTGTGCATTTTGATATATTTGAGTTCATTTTTTCCACAATGTCATACTTTT  
GACGCAGTTGGGTTTCTCATAAGTATCCTAGTTCATGTACATCCGAATGCTAAATAATACTGTGTTTAAAGTTTT  
GTGTTGCAAGAACAATGGAATAAACTTGAATTGTGCT

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**FIGURE 2431**

MCDKEFMWALKNGDLDEVKDYVAKGEDVNRTLEGGRKPLHYAADCGQLEILEFLLLKGADINAPDKHHITPLLSA  
VYEGHVSCVKLLLSKGADKTVKGPDLTA FEATDNQA IKALLQ

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**FIGURE 2432**

ATGAGGCGGTTTTTCAGTAGTACAGAGGGTACTTTGTCATATTAGACCTTTTCTGGCTCTTTTAACAAGGACGCTG  
TTGCTTATTCCTAATAACAATGTCGTTCTCTGGCAGATTCATAGTCCACCAGTCCAGCTCTGGCCCAAGATCTCCT  
CTCACCATGATCCCAAGTTATTCTTTCCGGATATCATTAGGAAAGGACAGCGAATCATCCCTTTTCATCCTCTTC  
CCATATGCCAACCCCTCACTCCCTCTTTTCTTATTTGCAATCAGAGAGGGAAGAATGCAGATCTGCCAAGTGCGT  
TATAAATACTGTGAAACAAAAGGGACGCTCTGGGGCAGCGCAGGAGGGGTACAGTCCTACAAGGTGTCCACCTCT  
GGCCCCTGGGCCTTCAGCAGCCGCTCCTGCACGAGTGGGCCCTGTGCCCGCATGAGCTCCTCGAGCTTCTCCCGA  
GTGGACAGCAGCAGCTTTCGGGGTGGCCTGGGCAGCGGCTATGAGGTGAACCCCAACATCCAGGCCGTGCGCATC  
CAGGGGAAGGAGCAGATCAAGACCCTCAACAAGAAGTTGCCTCCTTCATAGACAAGGTACGGTTCCTGGAGCAG  
CAGAACAAGATGCTGGAGACCAAGTGGAGCCTCCTGCAGCAGCAGACGACGACTCGGAGCAACATGGACAACATG  
TTCGAGAGCTACATCAACAACCTTAGGCGGCAGCTGAAGCACTCTTCTTTTAAAAGTTTCTGA

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**FIGURE 2433**

CTCTTTCCCATCTTGCAAGATGGCGGGTGAAAAAGTTGAGAAGCCAGATACTAAAGAGAAGAAACCTGAAGCCAA  
GAAGGCTGATGCTGGTGGCAAGGTGAAAAAGGGTAACCTCAAGGCTAAAAAGCCCAAGAAGGGGAAGCCCCATTG  
CAGCCGCAACCCTGTCTATTGTCAGAGGAATTGGCAGGTATTCCCGATCTGCTATGTATTCCAGAAAGGCCATGTA  
CAAGAGGAAGTACTCAGCCGCTAAATCCAAGGTTGAAAAGAAAAAGAAGGAGAAGGTTCTTGCAACTGTTACAAA  
ACCAGTTGGTGGTGACAAGAACGGCAGTACCCGGGTGGTTAACTTCGCAAAATGCCTAGATATTATCCTACTGA  
AGATGTGCCTCGAAAGCTGTTGAGCCACAGCAAAAAACCCTTCAGTCAGCACGTGAGAAAACGCGAGCCAGCAT  
TACCCCGGGACCATTCTGATCATCCTCACTGGACGCCACAGGGGCAAGAGGGTGGTTTTCTGAAGCAGCTGGC  
TAGTGGCTTGTTACTTGTGACTGGACCTCTGGTCCTCAATCGAGTTCCTCTACGAAGAACACACCAGAAATTTGT  
CATTGCCACCTCAACCAAAATCGATATCAGCAATGTAAAAATCCCAAAACATCTTACTGATGCTTACTTCAAGAA  
GAAGAAGCTGCGGAAGCCCAGACACCAGGAAGGTGAGATCTTCGACACAGAAAAAGAGAAATATGAGATTACGGA  
GCAGTGCAAGATTGAGCAGAAAGCTGTGGACTCACAAATTTTACCAGAAATCAAAGCTATTCTCAGCTCCAGGG  
CTACCTGTGATCTGTGGTTGCCCTGACGAATGGAATTTATCCTCACAAATTGGTGTCTAAATGTCTTAAGAACT  
TAATTAAATAGTTGACTAC

**FIGURE 2434**

CAGGCCCCCTGAGATCATCCTTGGTTTACCATTTTGTGAGGCAATTGACATGTGGTCCCTGGGCTGTGTTATTGC  
AGAATTGTTTCTGGGTTGGCGTTATATCCAGGAGCTTCGGAGTATGATCAGATTCGGTATATTTACAAACACA  
GGGTTTGCCTGCTGAATATTTATTAAGCGCCGGGACAAAGACAACCTAGGTTTTTCAACCGTGACACGGACTCACC  
ATATCCTTTTGTGGAGACTGAAGACACCAGATGACCATGAAGCAGAGACAGGGATTAAGTCAAAGAAGCAAGAAA  
GTACATTTTTCAACTGTTTAGATGATATGGCCCAGGTGAACATGACGACAGATTTGGAAGGGAGCGACATGTTGGT  
AGAAAAGGCTGACCGGCGGGAGTTTCATTGACCTGTTGAAGAAGATGCTGACCATTGATGCTGACAAGAGAATCAC  
TCCAATCGAAACCCTGAACCATCCCTTTGTCAACATGACACACTTACTCGATTTTCCCCACAGCACACACGTCAA  
ATCATGTTTTCCAGAACATGGAGATCTGCAAGCGTCGGGTGAATATGTATGACACGGTGAACCAGAGCAAAACCCC  
TTTCATCACGCACGTGGCCCCCAGCAGTCCACCAACCTGACCATGACCTTTAACAACCAGCTGACCCTGTCCA  
CAACCAGGCTCCCTCCTCTACCAGTGGCACTATTTCTTAGCCAATCCCGAAGTCTCCATACTAAACTACCCATC  
TACACTCTACCAGCCCTCAGCGGCATCCATGGCTGCAGTGGCCCAGCGGAGCATGCCCTGCAGACAGGAACAGC  
CCAGATTTGTGCCCGGCCTGACCCGTTCCAGCAAGCTCTCATCGTGTGTCCCCCGGCTTCCAAGGCTTGCAGGC  
CTCTCCCTCTAAGCACGCTGGCTACTCGGTGCGAATGGAAAATGCAGTTCCCATCGTCACTCAAGCCCCAGGAGC  
TCAGCCTCTTCAGATCCAACCAGGTCTGCTTGCCAGCAGGCTTGGCCAAGTGGGACCCAGCAGATCCTGCTTCC  
CCCAGCATGGCAGCAACTGACTGGAGTGGCCACCCACACATCAGTGCAGCATGCCACCGTGATTCCCGAGACCAT  
GGCAGGCACCCAGCAGCTGGCGGACTGGAGAAATACGCATGCTCACGGAAGCCATTATAATCCCATCATGCAGCA  
GCCTGCACCTATTGACCGGTCTGTGACCTTCCAGCAGCACAGCCCTTAAATGTGGGTGTGGCCCACGTGATGCG  
GCAGCAGCCAACCAGCACCACTCCTCCCGGAAGAGTAAGCAGCACCAAGTCTCTGTGAGAAATGTCTCCACCTG  
TGAGGTGTCTCTCTCAGGCCATCAGTCTCCACAGCGATCCAAGCGTGTCAAGGAGAACACACCTCCCCGCTG  
TGCCATGGTGCACAGTAGCCCGGCCCTGCAGACCTCGGTACCTGTGGGTGGGGCGACGTGGCCTCCAGCACCA  
CCGGGAACGGCAGCGGCAGACAATTGTCTATCCCGACACTCCAGCCCCACGGTCAGCGTCTACCATCAGCAG  
TGACACGGACGAGGAGGAGGAACAGAAACAGCCCCACCAGCACTGTCTCCAAGCAAAGAAAAAACGTCTCAG  
CTGTGTACAGTCCACGACTCCCCCTACTCCGACTCCTCCAGCAACACCAGCCCCCTACTCCGTGCAGCAGCGTGC  
TGGGCACAACAATGCCAATGCCTTTGACACCAAGGGGAGCCTGGAGAACTACTGCACGGGGAACCCCCGAACCAT  
CATCGTGCCACCCCTGAAAACCCAGGCCAGCGAAGTATTGGTGGAGTGTGATAGCCTGGTGCAGTCAACACCAG  
TCACCACTCGTCTCTTACAAGTCCAAGTCTCCAGCAACGTGACCTCCACCAGCGGTCACTCTTCAGGGAGCTC  
ATCTGGAGCCATCACCTACCGGCAGCAGCGGCCGGGCCCCACTTCCAGCAGCAGCAGCCACTCAATCTCAGCCA  
GGCTCAGCAGCACATCAACACGGACCGCACTGGGAGCCACCGAAGGCAGCAGGCCCTACATCACTCCCAACATGGC  
CCAGGCTCCGTACTCTTCCCGCACAAACAGCCCCAGCCACGGCACTGTGCACCCGCATCTGGCTGCAGCCGCTGC  
CGCTGCCCACCTCCCCACCCAGCCCCACCTCTACACCTACACTGCGCCGGCGGCCCTGGGCTCCACCGGCACCGT  
GGCCCACCTGGTGGCCTCGCAAGGCTCTGCGCGCCACACCGTGCAGCACACTGCCTACCCAGCCAGCATCGTCCA  
CCAGGTCCCCGTGAGCATGGGCCCCGGGTCTTGCCCTCGCCCACCATCCACCCGAGTCAGTATCCAGCCCAATT  
TGCCCACCAGACCTACATCAGCGCCTCGCCAGCCTCCACCGTCTACACTGGATACCCACTGAGCCCCGCCAAGGT  
CAACCAGTACCTTTACATATAAACACTGGAGGGGAGGGAGGGAGGGAGGGAGGGAGAGAATGGCCCCGAGGGAGGA  
GGGAGAGAAGGAGGGAGGGCGCTCTTGGGACCGTGGGCGCTGGCCTTTTATACTGAAGATGCCGCACACAAACAAT  
GCAAACGGGGCAGGGGCGGGGGGGGGGGGGGGCAGAGGGCAGGGGGACGGGTGCGGACACCAGTGAAAACCTTGA  
ACCGGGAAGTGGGAGGACGTAGAGCAGAGAAGAGAACATTTTAAAAGGAAGGGATTAAAGAGGGTGGGAAATCT  
ATGGTTTTTTATTTTAAAAAA



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**FIGURE 2435**

CCTGCGTGGCTGGGCTGCTCGGGTTAGATCGTCAGGAAAAGCCTAAAGATTAGACTGTAAGAAAAGAAAATAGAA  
GCCATGTTTTCGAAGACCTGTATTACAGGTACTTCGTCAGTTTGTAAAGACATGAGTCCGAAACAACCTACCAGTTTG  
GTTCTTGAAAGATCCCTGAATCGTGTGCACTTACTTGGGCGAGTGGGTCAGGACCCTGTCTTGAGACAGGTGGAA  
GGAAAAATCCAGTCACAATATTTTCTCTAGCAACTAATGAGATGTGGCGATCAGGGGATAGTGAAGTTTACCAA  
CTGGGTGATGTCAGTCAAAGACAACATGGCACAGAATATCAGTATTCGGCCAGGCCTCAGAGACGTGGCATAT  
CAATATGTGAAAAAGGGTCTCGAATTTATTTGGAAGGGAAAAATAGACTATGGTGAATACATGGATAAAAAATAAT  
GTGAGGCGACAAGCAACAACAATCATAGCTGATAATATTATATTTCTGAGTGACCAGACGAAAGAGAAGGAGTAG,  
AAAGGATGATTCTTCTTTGGCCATCATTTGGTACAGTCTCATTTCCAAGTCATGTATAATCTTTATGGCTTCCAA  
GGACAAGAATTAAATACTCTTTTACGT

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**FIGURE 2436**

MFRRPVLRQVLRQFVRHESETTTSLVLRSLNRVHLLGRVGQDPVLRQVEGKNPVTIFSLATNEMWRSGDSEVYQL  
GDVSQKTTWHRISVFRPGLRDVAYQYVKKGSRIYLEGKIDYGEYMDKNNVRRQATTIADNIIFLSDQTKEKE

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**FIGURE 2437**

GACCAGCCGTGCAAATCTCTAGAAGATGACGGTGTTCCTTTAAACGCTTCGAAATCACTGGAAGAAAACCTACAGC  
TGGGCTCTGCCTGCTGACCTGGGGAGGCCATTGGCTCTATGGAAAACACTGTGATAACCTCCTAAGGAGAGCAGC  
CTGTCAAGAAGCTCAGGTGTTTGGCAATCAACTCATTCCCTCCCAATGCACAAGTGAAGAAGGCCACTGTTTTTCT  
CAATCCTGCAGCTTGCAAAGGAAAAGCTAGGACTCTATTTGAAAAAATGCTGCCCCGATTTTACATTTATCTGG  
CATGGATGTGACTATTGTTAAGACAGATTATGAGGGACAAGCCAAGAACTCCTGGAACCTGATGGAAAACACGGA  
TGTGATCATTGTTGCAGGAGGAGATGGGACACTGCAGGAGGTTGTTACTGGTGTTCCTCGACGAACAGATGAGGC  
TACCTTCAGTAAGATTCCCATTGGATTATCCCACTGGGAGAGACCAGTAGTTTGGAGTCATACCTCTTTGCCGA  
AAGTGGAAACAAAGTCCAACATATTACTGATGCCACACTTGCCATTGTGAAAGGAGAGACAGTTCCACTTGATGT  
CTTGACAGATCAAGGGTGAAAAGGAACAGCCTGTATTTGCAATGACGGCCTTCGATGGGGATCTTTCAGAGATGC  
TGGCGTCAAAGTTAGCAAGTACTGGTATCTTGGGCCTCTAAAAATCAAAGCAGCCCACCTTTTTCAGCACTCTTAA  
GGAGTGGCCTCAGACTCATCAAGCCTCTATCTCATACACGGGACCTACAGAGAGACCTCCCAATGAACCAGAGGA  
GACCCCTGTACAAAGGCCTTCTTTGTACAGGAGAATATTACGAAGGCTTGCCTCTACTGGGCACAACCACAGGA  
TGCCCTTTCCCAAGAGGTGAGCCCGGAGGTCTGGAAGATGTGCAGCTGTCCACCATTGAACTGTCCATCACAAC  
ACGGAATAATCAGCTTGACCCGACAAGCAAAGAAGATTTTCTGAATATCTGCATTGAACCTGACACCATCAGCAA  
AGGAGACTTTATAACTATAGGAAGTCGAAAGGTGAGAAACCCCAAGCTGCACGTGGAGGGCACGGAGTGTCTCCA  
AGCCAGCCAGTGCACCTTTGCTTATCCCGGAGGGAGCAGGGGGCTCTTTTAGCATTGACAGTGAGGAGTATGAAGC  
GATGCCTGTGGAGGTGAAACTGCTCCCCAGGAAGCTGCAGTTCTTCTGTGATCCTAGGAAGAGAGAACAGATGCT  
CACAAGCCCCACCCAGTGAAGCAGCAGAAGACAAGCACTCTGAGACCACACTTTAGGCCACCGGTGGGACCAAAAG  
GGAACAGGTGCCTCAGCCATCCCAACAGTGTCTGTCAGAGGGTCCCCAGGGCATTTCATGGCAAGTACCCCTCTG  
CCCCACTCCAGCAGTGCTTCCCAAGTGTGCTCTGTCACTGCTTTGCAATCGGCTTCCATTAGCGCATGTTTT  
ATTTTGGTGTGACGGTTGGCCCTCCTAAACACGGACTTTCTCAGGCTGGTTCAAGACGGAAAAGGACTTTCTTC  
TGTTTTCTTCCAAAGTGCAACCACAGTGGAGAGCCACGGTGGGCTTAGCCTGCCTAGGCCCTTCCATTTCTCTT  
CTTTGACCGTGCTAGGAATTCCAGGAAAGTGCAATCCTGCCCTGGTGACCTTTTCCTATGTCTAGGCTCCTCCAC  
AGGTGCTGCTATTTTGTGAGCTCCGGCCTCTGTTAGCTTTTATTTTCAGTTCTAACCTCAGTCCAGAAAACATATG  
TGAGGTTGTTTTCCCTCTTCAGCCACGGCTACAATACCGGAAAATGCTAGTTTTTATTTATTTTTTAAAGTAGTGC  
TTCCTAAATGGTTTGCATGAGAGCCACCTGGGGTACATGTTGAAAACCTATTGTTGGGTCTACCCCAAACCTAATA  
ACCCAAATTTGGGGATGGGGCCAGGAATATGCATTTTAAAAAGTCATCTGCCCTTCCCAGGTGATTCTGTAAAG  
TTGTCCCTCAACTGTACTTGGAGAAATCGTGTTTTAAAGCAGTAGTCCACAAAGTATTCTGCTCATGTGCCCCCA  
AAAGTATTTTGA AAAATCATGTATACCTCACCCTCAAGTTGATATCTAAATTTTATCTAAGTTGGTATCTA  
AAATTTTTCATGGGAAGTTAAATAGTTGACAAAGTATGTATTTGCTGGTGTGCTGTAAATATTGGTATTTTAAAA  
TAAAAACTGTTACATCACTATTTTAAACATATCCAGTACAATTTAAATATCACAACAATTTGACACCCCTTCATTC  
ATTTATAAAAATAAATGAGCTAGTTCTTTAGTAGTTAAACATTTCAAATTGGCTTTTCTCCTTCTGTATTTCCAT  
ACCACTTTTCAGCCAAGAATCCTATCATAATGTAATCTATTATGCCCGACATCTTTAATCATTCACCCCATTAAC  
TTCTTGTCAACAAAAAATATAAATGGAAATTTTTTTTTTAGCTCTTGCTTTAAGTGTGTTGTTGTTATCTCAGTC  
CAGAACCAATATTATCGTAATTAATTATTGGTATATAATGAAAACGGTATTAATTCTTGGATGATTAAAGTTTT  
TTTATTAGAATGTTCTTTATCCTAATTAGTTTCAATTTATCCAAGAATACATGAATGTGATTTACAGCTGAGATGGG  
GTTCAACCTCAGCTGTATTCCTTGTTTCTGTATAGATGTAAGCACATAAATTCGATGGAATAGAATTACGTTAAC  
AATGAAAAAAAAAAAAAA

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**FIGURE 2438**

MTVFFKTLRNHWKTTAGLCLLTWGGHWLYGKHCDNLLRRAACQEAQVFGNQLIPPNAQVKKATVFLNPAACKGK  
ARTLFEKNAAPILHLSGMDVTIVKTDYEGQAKKLELEMENTDVIIVAGGDGTLQEVVTGVLRRIDEATFSKIPIG  
FIPLGETSSLSHTLFAESGNKVQHITDATALAIVKGETVPLDVLQIKGEKEQPVFAMTGLRWGSFRDAGVKVSKYW  
YLGPLKIKAAHFFSTLKEWPQTHQASISYTGPTERPPNEPEETPVQRPSLYRRILRRLASYWAQPQDALSQEVSP  
EVWKDVQLSTIELSITTRNNQLDPTSKEDFLNICIEPDTISKGDFITIGSRKVRNPKLHVEGTECLQASQCTLLI  
PEGAGGSFSIDSEYEAMPVEVKLLPRKLQFFCDPRKREQMLTSPTQ

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**FIGURE 2439**

CGCCTCCCTTCCCCCTCCCCGCCGACAGCGGCCGCTCGGGCCCCGGCTCTCGGTTATAAGATGGCGGCGCTGAG  
CGGTGGCGGTGGTGGCGGCGCGGAGCCGGGCCAGGCTCTGTTCAACGGGGACATGGAGCCCGAGGCCGGCGCCGG  
CGCCGGCGCCGCGGCCCTCTTCGGCTGCGGACCCTGCCATTCCGGAGGAGGTGTGGAATATCAAACAAATGATTAA  
GTTGACACAGGAACATATAGAGGCCCTATTGGACAAATTTGGTGGGGAGCATAATCCACCATCAATATATCTGGA  
GGCCTATGAAGAATACACCAGCAAGCTAGATGCACTCCAACAAAGAGAACAACAGTTATTGGAATCTCTGGGGAA  
CGGAAGTGAATTTTTCTGTTTCTAGCTCTGCATCAATGGATACCGTTACATCTTCTTCCTCTTCTAGCCTTTCAGT  
GCTACCTTCATCTCTTTCAGTTTTTCAAATCCCACAGATGTGGCACGGAGCAACCCCAAGTCACCACAAAAACC  
TATCGTTAGAGTCTTCCTGCCCAACAAACAGAGGACAGTGGTACCTGCAAGGTGTGGAGTTACAGTCCGAGACAG  
TCTAAAGAAAGCACTGATGATGAGAGGTCTAATCCCAGAGTGCTGTGCTGTTTACAGAATTCAGGATGGAGAGAA  
GAAACCAATTGGTTGGGACACTGATATTTCTGGCTTACTGGAGAAGAATTGCATGTGGAAGTGTGGAGAATGT  
TCCACTTACAACACACAACTTTGTACGAAAAACGTTTTTACCTTAGCATTTTGTGACTTTTGTGAAAGCTGCT  
TTTCCAGGGTTTCCGCTGTCAAACATGTGGTTATAAATTTACCAGCGTTGTAGTACAGAAGTTCCACTGATGTG  
TGTTAATTATGACCAACTTGATTTGCTGTTTGTCTCCAAGTTCTTTGAACACCACCCAATACCACAGGAAGAGGC  
GTCCTTAGCAGAGACTGCCCTAACATCTGGATCATCCCCTTCCGCACCCCGCTCGGACTCTATTGGGCCCCAAAT  
TCTCACCAGTCCGCTCCTTCAAATCCATTCCAATTCCACAGCCCTTCCGACCAGCAGATGAAGATCATCGAAA  
TCAATTTGGGCAACGAGACCGATCCTCATCAGCTCCCAATGTGCATATAAACACAATAGAACCTGTCAATATTGA  
TGACTTGATTAGAGACCAAGGATTTCTGTTGATGGAGGATCAACCACAGGTTTGTCTGCTACCCCCCTGCCTC  
ATTACCTGGCTCACTAACTAACGTGAAAGCCTTACAGAAATCTCCAGGACCTCAGCGAGAAAGGAAGTCATCTTC  
ATCCTCAGAAGACAGGAATCGAATGAAAACACTTGGTAGACGGGACTCGAGTGATGATTGGGAGATTCTGTATGG  
GCAGATTACAGTGGGACAAAGAATTGGATCTGGATCATTTGGAACAGTCTACAAGGGAAAGTGGCATGGTGATGT  
GGCAGTGAAAATGTTGAATGTGACAGCACCTACACCTCAGCAGTTACAAGCCTTCAAAAATGAAGTAGGAGTACT  
CAGGAAAACACGACATGTGAATATCCTACTCTTCATGGGCTATTCCACAAAGCCACAACCTGGCTATTGTTACCCA  
GTGGTGTGAGGGCTCCAGCTTGTATCACCATCTCCATATCATTGAGACCAAAATTTGAGATGATCAAACCTTATAGA  
TATTGCACGACAGACTGCACAGGGCATGGATTACTTACACGCCAAGTCAATCATCCACAGAGACCTCAAGAGTAA  
TAATATATTTCTTCATGAAGACCTCACAGTAAAAATAGGTGATTTTGGTCTAGCTACAGTGAAATCTCGATGGAG  
TGGGTCCCATCAGTTTGAACAGTTGTCTGGATCCATTTTGTGGATGGCACCAGAAAGTCATCAGAATGCAAGATAA  
AAATCCATACAGCTTTTCACTCAGATGTATATGCATTTGGAATTGTTCTGTATGAATTGATGACTGGACAGTTACC  
TTATTCAAACATCAACAACAGGGACCAGATAATTTTTATGGTGGGACGAGGATACCTGTCTCCAGATCTCAGTAA  
GGTACGGAGTAACTGTCCAAAAGCCATGAAGAGATTAATGGCAGAGTGCCTCAAAAAGAAAAGAGATGAGAGACC  
ACTCTTTCCCCAAATTCTCGCCTCTATTGAGCTGCTGGCCCGCTCATTGCCAAAAATTCACCGCAGTGCATCAGA  
ACCCTCCTTGAATCGGGCTGGTTTCCAAACAGAGGATTTTAGTCTATATGCTTGTGCTTCTCCAAAACACCCAT  
CCAGGCAGGGGATATGGTGCCTTCTGTCCACTGAAACAAATGAGTGAGAGAGTTTCCAGGAGAGTAGCAACAAA  
AGGAAAATAAATGAACATATGTTTGCTTATATGTTAAATTGAATAAAATACTCTCTTTTTTTTAAAGTG

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**FIGURE 2440**

GGCACGAGGGTGTCCCTCCCCGCGGCTGGAGGCTGCTCCGGACCGGGACGCAGAGTCTGCGGACCCGGCGCCG  
AGGCGGCCACCCGAGACGCGGCGCGCACGCTCCGGCCTGCGCAGCCCGGCCCGGCCATGGCGGCCCGCCCGT  
CTCCGCGATCTCCGTTTCGGTCTCGGCTCCGGCTTTTTACGCCCCGAGAAGAAGTTCGGCCCTGTGGTGGCCC  
CAAAGCCCAAAGTGAATCCCTTCCGGCCCCGGGACAGCGAGCCTCCCCGGCACCCGGGGCCAGCGCGCACAGA  
TGGGCGGGTGGGCGAGATTCCCCCGCCGCCCGGGAAGACTTTCCCTGCCTCCACCTCCCCTTGCTGGGGATG  
GCGACGATGCAGAGGGTGTCTGGGAGGTGCCTTCCCGCCGCCCTCCCCGATCGAGGAATCATTTCGCCCTG  
CGCCTCTGGAGGAGGAGATCTTCCCTTCCCGCCGCCTCCTCCGGAGGAGGAGGGAGGGCCTGAGGCCCCATAC  
CGCCCCACCCAGCCAGGGAGAAGGTGAGCAGTATTGATTGGAGATCGACTCTCTGTCTCACTGCTGGATG  
ACATGACCAAGAATGATCCTTTCAAAGCCCGGTGTCATCTGGATATGTGCCCCACCAGTGGCCACTCCATTCA  
GTTCCAAGTCCAGTACCAAGCCTGCAGCCGGGGGCACAGCACCCCTGCCTCCTTGGAAGTCCCTTCCAGCTCCC  
AGCCTCTGCCCCAGGTTCGGGCTCCGGCTCAGAGCCAGACACAGTTCCATGTTTCCAGCCCCAGCCCCAGCCAAGC  
CTCAGGTCCAACCTCCATGTCCAGTCCCAGACCCAGCCTGTGTCTTTGGCTAACACCCAGCCCCAGGGCCCCCAG  
CCTCATCTCCGGCTCCAGCCCCCTAAGTTTTCTCCAGTGACTCCTAAGTTTACTCCTGTGGCTTCCAAGTTCAGTC  
CTGGAGCCCCAGGTGGATCTGGGTACAAACCAAAATCAAAAATTGGGGCACCCCGAAGCTCTTTCTGCTGGCACAG  
GCTCCCTCAACCTCCCAGCTTACCTATGCCCAGCAGAGGGAGAAGCCCCGAGTGCAGGAGAAGCAGCACCCCG  
TGCCCCACCGGCTCAGAACCAAAACAGGTGCGCTCCCCTGGGGCCCCAGGGCCCCCTGACTCTGAAGGAGGTGG  
AGGAGCTGGAGCAGCTGACCCAGCAGCTAATGCAGGACATGGAGCATCCTCAGAGGCAGAATGTGGCTGTCAACG  
AACTCTGCGGCCGATGCCATCAACCCCTGGCCCCGGGCGCAGCCAGCCGTCCGCGCTCTAGGGCAGCTGTTCCACA  
TCGCTGTCTTACCTGCCACCAAGTGTGCGCAGCAGCTCCAGGGCCAGCAGTTCTACAGTCTGGAGGGGGCGCCGT  
ACTGCGAGGGCTGTTACACTGACACCCTGGAGAAGTGTAACACCTGCGGGAGCCCATCACTGACCGCATGCTGA  
GGGCCACGGGCAAGGCCTATCACCCGCACTGCTTACCTGTGTGGTCTGCGCCCGCCCCCTGGAGGGCACCTCCT  
TCATCGTGGACCAGGCCAACCGGCCCACTGTGTCCCCGACTACCACAAGCAGTACGCCCCGAGGTGCTCCGTCT  
GCTCTGAGCCCATCATGCCTGAGCCTGGCCGAGATGAGACTGTGCGAGTGGTTCGCCCTGGACAAGAACTTCCACA  
TGAAGTGTTACAAGTGTGAGGACTGCGGGAAGCCCCGTGTCGATTGAGGCAGATGACAATGGCTGCTTCCCCCTGG  
ACGGTCACGTGCTCTGTGGAAGTGCCACACTGCTAGAGCCCGAGACCTGAGTGAGGACAGGCCCTCTTCAGACCG  
CAGTCCATGCCCCATTGTGGACCACCCACACTGAGACCACCTGCCCCACCTCAGTTATTGTTTTGATGTCTAGC  
CCCTCCCATTTCACCCCTCCCTAGCATCCCAGGTGCCCTGACCCAGGACCCAAACATGGTCTAGGGATGCAGGA  
TCCCCGCCCTGGGGTCTGGTCCTCGCCATCCTGCAGGGATTGCCACCGTCTTCCAGACACCCACCTGAGGGG  
GGCACCAGGTTTAGTGCTGCTGCTTTCACTGCTGCACCCGCGCCCTCGGCCGGCCCCCGAGCAGCCTTTGTACT  
CTGCTTGCGGAGGGCTGGGAGACCCTCCAGGACATTCCCACCTCCCCCATGCTGCCAAGTTGTAGCTATAGCTA  
CAAATAAAAAAAAAACCTTGTTTTCCAGAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2441**

MAAPRPSPAISVSVSAPAFYAPQKKFGPVVAPKPKVNFPRPGDSEPPAPGAQRAQMGRVGEIPPPPPEDFPLPP  
PPLAGDGDDAEGALGGAFPPPPPIEESFPPAPLEEEIFPSPPPPPEEEGGPEAPIPPPPQPREKVSSIDLEIDS  
LSSLLDDMTKNDFKARVSSGYVPPPVATPFSSKSSTKPAAGGTAPLPPWKSPSSSQPLPQVPAPAQSQTQFHVQ  
PQPQPKPQVQLHVQSQTQPVSLANTQPRGPPASSPAPAPKFSPVTPKFTPVASKFSPGAPGGSGSQPNQKLGHPE  
ALSAGTGSPQPPSFTYAQQREKPRVQEKQHPVPPPAQNQNQVRSPGAPGLTLKEVEELEQLTQQLMQDMEHPQR  
QNVAVNELCGRCHQPLARAQPAVRALGQLFHIACFTCHQCAQQLQGQQFYSLGAPYCEGCYTDLEKCNTCGEP  
ITDRMLRATGKAYHPHCFTCVVCARPLEGTSFIVDQANRPHCVPDYHKQYAPRCSVCSEPIMPEPGRDETVRVVA  
LDKNFHMKYKCEDCGKPLSIEADDNGCFPLDGHVLCRKCHTARAQT

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**FIGURE 2442**

GGCACGAGGGGCGGCGGAGCCGACTCGTCGCGGCCGAGGCGCACGCGGTCCGCGCCGGCGTCAGTCTGGGATTGG  
CCGGCCCCGCGACTTCCTCCGCCCCCTGCCAATCGCCGGGGACGACTTCCGTGGGTTTTTCCGGCTCTCCCGCGTC  
GCTAAGGAGCGACGGGCTGTGCGCCAGACCCCGAGTTCTCGGTGCGCTCAGCGGCCGCCGACGCTAGGAGGCCGC  
GCTCCGCCCCCGCTACCATGAGGCCCCGAAAGCCTTCCTGCTCCTGCTGCTCTTGGGGCTGGTGCAGCTGCTGG  
CCGTGGCGGGTGCCGAGGGCCCCGACGAGGATTCTTCTAACAGAGAAAATGCCATTGAGGATGAAGAGGAGGAGG  
AGGAGGAAGATGATGATGAGGAAGAAGACGACTTGGAAGTTAAGGAAGAAAATGGAGTCTTGGTCTTAAATGATG  
CAAACTTTGATAATTTTGTGGCTGACAAAGACACAGTGTGCTGGAGTTTTATGCTCCATGGTGTGGACATTGCA  
AGCAGTTTGCTCCGGAATATGAAAAAATTGCCAACATATTAAGGATAAAGATCCTCCCATTCCTGTTGCCAAGA  
TCGATGCAACCTCAGCGTCTGTGCTGGCCAGCAGGTTTGATGTGAGTGGCTACCCACCATCAAGATCCTTAAGA  
AGGGGCAGGCTGTAGACTACGAGGGCTCCAGAACCCAGGAAGAAATTGTTGCCAAGGTCAGAGAAGTCTCCAGC  
CCGACTGGACGCTCCACCAGAAGTCACGCTTGTGTTGACCAAAGAGAAGTTTGATGAAGTTGTGAATGATGCAG  
ATATCATTCTGGTGGAGTTTTATGCCCCATGGTGTGGACACTGCAAGAACTTGCCCCGAGTATGAGAAGGCCG  
CCAAGGAGCTCAGCAAGCGTTCTCTCCAATTCCCTGGCAAAGGTCGACGCCACCGCAGAAACAGACCTGGCCA  
AGAGGTTTGATGTCTCTGGCTATCCACCCCTGAAAATTTTCCGCAAAGGAAGGCCTTATGACTACAACGGCCAC  
GAGAAAAATATGGAATCGTTGATTACATGATCGAGCAGTCCGGGCCTCCCTCCAAGGAGATTCTGACCCTGAAGC  
AGGTCCAGGAGTTCTGAAGGATGGAGACGATGTCATCATCATCGGGGTCTTTAAGGGGAGAGTGACCCAGCCT  
ACCAGCAATACCAGGATGCCGCTAACAACTGAGAGAAGATTACAAATTTACCACACTTTCAGCACAGAAATAG  
CAAAGTTCTTGAAAGTCTCCAGGGGCAGTTGGTTGTAATGCAGCCTGAGAAATTCCAGTCCAAGTATGAGCCCC  
GGAGCCACATGATGGACGTCCAGGGCTCCACCCAGGACTCGGCCATCAAGGACTTCGTGCTGAAGTACGCCCTGC  
CCCTGGTTGGCCACCGCAAGGTGTCAAACGATGCTAAGCGCTACACCAGGCGCCCCCTGGTGGTCTGCTACTACA  
GTGTGGACTTCAGCTTTGATTACAGAGCTGCAACTCAGTTTTGGCGGAGCAAAGTCCTAGAGGTGGCCAAGGACT  
TCCCTGAGTACACCTTTGCCATTGCGGACGAAGAGGACTATGCTGGGGAGGTGAAGGACCTGGGGCTCAGCGAGA  
GTGGGGAGGATGTCAATGCCGCCATCCTGGACGAGAGTGGGAAGAAGTTCGCCATGGAGCCAGAGGAGTTTGACT  
CTGACACCCTCCGCGAGTTTGTCACTGCTTTCAAAAAAGGAAAAGTGAAGCCAGTCATCAAAATCCCAGCCAGTGC  
CCAAGAACAACAAGGGACCCGTCAGGTGCTGGTGGGAAAGACCTTTGACTCCATTGTGATGGACCCCAAGAAGG  
ACGTCCTCATCGAGTTCTACGCACCATGGTGCGGGCACTGCAAGCAGCTAGAGCCCGTGTACAACAGCCTGGCCA  
AGAAGTACAAGGGCCAAAAGGGCCTGGTCATCGCCAAGATGGACGCCACTGCCAACGACGTCCCCAGCGACCGCT  
ATAAGGTGGAGGGCTTCCCCACCATCTACTTCGCCCCAGTGGGGACAAAAGAACCAGTTAAATTTGAGGGTG  
GAGACAGAGATCTGGAGCATTGAGCAAGTTTATAGAAGAATGCCACAAAAGTGAAGCAGGACCAAGGAAGAGC  
TTTGAAGGCCTGAGGTCTGCGGAAGGTGGGAGGAGGCAGACACCCTGCGTGGCCCATGGTTCGGGGCGTCCACGCC  
GAGGCCGCAACAACGACAGTATCTCGGATTCTTTTTTTTTTTTTTTTTTAAATTTTTTATACTTTGGTGTTCAC  
TTCATGCTCTGAATACTGAATAACCATGAATGACTGAATAGTTTAGTCCAGATTTTTACAGAGGATACATCTATT  
TTTATCATTATTTGGGGTTTGAAAAATTTTTTTTACACCTTCTAATTTCTTTATTTCTCAAAGCAGATAATTCT  
TCTGTGTGAAAATGTTTTCTTTTTTAAATTAAGGTTTAAAAATTCCTTTGCCAAATCATGTTGATTTTGCTCTTT  
GCTTTTTCTGTTGTCTGAGAAATTGTTGGCGTAGATTTGGCTTCTGGTATGTGTTTCTGATTGCTTCCTGTTGAGC  
ACAAAGTGAGAGCTGCCACTGAGCAGCCCTGCCAGGGGTGCTGTTTCAGGCTGGGCATCGCCAGGCGGCCTCCCT  
GCAAACCAAGGGCTGGGGGCAAAGGGGCATGATCCAGGGTCCCCAGGGTGGGCTCAGCTCCAGGGAGAGGCCAC  
CCACGTGGCAGCCCCACCTCTTGAGAGCCCCAGTGCCGGAGCAGAAAGGACCCTGGACCCAGAGGCAGATACTG  
CGGGGTGGTAGAAAAGGTAGAGTAGGCTGTGGCAATGGAATAAAACACGATTAAAAACGTTAAAAA  
AAAAA



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**FIGURE 2443**

MRPRKAFLLLLLLGLVQLLAVAGAEGPDEDSSNRENAIEDEEEEEEDDDDEEEDDLEVKEENGVLVLNDANFDNF  
VADKDTVLLLEFYAPWCGHCKQFAPEYEKIANILKDKDPPIPVAKIDATSASVLA SRFDVSGYPTIKILKKGQAVD  
YEGSRTQEEIVAKVREVSQPDWTPPEVTLVLTKENFDEVVNDADIILVEFYAPWCGHCKKLAPEYEKAAKELSK  
RSPPIPLAKVDATAETDLAKRFDVSGYPTLKIFRKGRPYDYNGPREKYGIVDYMIEQSGPPSKEILTLKQVQEFL  
KDGD DVIIIGVFKGESDPAYQQYQDAANNLREDYKFHHTFSTEIAKFLKVSQGQLVVMQPEKFSKYEPRSHMMD  
VQGSTQDSA IKDFVLKYALPLVGHRKVSND AKRYTRRPLVVVYYSVDFSF DYRAATQFWR SKVLEVAKDFPEYTF  
AIAD EEDYAGEVKDLGLSESGEDVNAA ILDESGKKFAMEPEEFDSDTLREFVTAFKKGKLPVIKSQPVPKNNKG  
PVKVVVGKTFDSIVMDPKKDV LIEFYAPWCGHCKQLEPVYNSLAKKYKGQKGLVIAKMDATANDVPSDRYKVEGF  
PTIYFAPSGDKKNPVKFEGGDRDLEHL SKFIEEHATKLSRTKEEL

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**FIGURE 2444A**

GCCGCCGAAGGGGACTGTTTGCTCCTACGGGCTGTAGATGGAGCTGTCCGGCCCCGGAGAGGGGGAAGGCGCCTG  
GAAAACGTTCTTCTTCTCCCTGGCCGACCCGAGCGGGGAACAGCACTCCCAGGATGCAGTTTGTGTCAACACGGC  
CGCAGCCTCAGCAGCTGGGCATCCAGGGCCTGGGGCTGGACAGCGGGAGCTGGAGCTGGGCCCAGGCTCTGCCCC  
CGGAGGAGGTCTGCCACCAGGAGCCGGCGCTGCGCGGGGAAATGGCCGAGGGAATGCCGCCCATGCAGGCTCAAG  
AATGGGACATGGACGCCCCGGCGGCCAATGCCTTTTTCAGTTCACCCCTTTCCAGATAGGGCACCTGTCTTCCCCG  
ACCGCATGATGCGAGAGCCCCAGTTGCCACAGCAGAGATCTCACTCTGGACTGTGGTGGCTGCCATTCAGGCTG  
TGGAGAGGAAGGTGGATGCCCAGGCCAGCCAGCTGCTGAACCTGGAGGGGCGCACGGGGACAGCCGAGAAGAAGC  
TGGCCGACTGTGAAAAGACGGCCGTGGAATTTGGGAACCACATGGAGAGCAAGTGGGCCGTGCTGGGGACCTGCG  
TGCAGGAGTACGGGCTGCTGCGAGAGCGGCTGGAGAACTTGAGAAGTTGCTGCGCAACAGGAAGTTCTGGGTCC  
TGCGGCTGCCCCCGGGCAGCAAGGGGGAGGCCCCCAAGGTTCCAGTGACTTTTGTGACATTGCTGTGTACTTCT  
CCGAAGACGAGTGAAGAAGTTGGACGAATGGCAGAAGGAGCTTTATAACAACCTTGTTAAGGAGAAGTACAAAA  
CCCTCATGTCCCTGGACGCGGAGGGCTCAGTCCCCAAGCCAGATGCTCCAGTCCAGGCTGAGCCAGGGAAGAAGC  
CTTGTTGTGGGAGCAGCGCCACCCCGAAGAGAGAGAAATCCCAATGGATCCCGAAGCAGGAGCAGAGCCCCTGG  
TGCCTGCGCAGGATGCGTCTCCTCCAGGTGAAGCGTGAGGACACCCTGTGTGTCCGGGGTCAGCGGGGCTGGAGG  
AAAGAGCCATCCCTACGGAATCCATTACCGACTCCCCAATTTCTGCCCAGGACCTCTTGTTCCCGGATTAAACAGG  
AGGAGCATCAGTGCCTGTGGGATCAGCAGGATTTGGCAGACAGAGATATTCCACGGATCCCAATTCAGAGTCTC  
TCATCTCAGCACATGACATTTTGTATGGATCAAGCAGGAGGAGCAGCCATACCCATGGGGACCACGCGACTCAA  
TGGACGGAGAGCTTGATTAGACTCTGGCCCTAGTGACAGCCTGCTGATGGTGAAGAACCACCCCCGGCCCCGC  
CACAGCCCCAGCCCCAGCCCCAGCCACCGCAGCCGAGCTGCAGTGCAGCCCCAGCCCCAGAGCCTGCCCCCA  
TCGCGGTGGCCGAGAACC CGGGCGGCCCCCGAGCCGAGGGCTGCTGGACGACGTTTCCAGGTGCTGCCCCGGG  
AGCGTGGCTCCGGCGAGGCGCCGCGGGTGGGGACCGCAGCACCGGGGGCGGCGGGGGCGATGGGGGCGGTGGGG  
GCGGCGGCGCGGAGGCGGGGACGGGGCAGGCGGCGGCTGTGGCAGCTGCTGCCCTGGCGGGCTGCGGCGGAGCC  
TCCTCCTGCACGGCGCCCGCAGCAAGCCCTACTCGTGCCCCGAGTGCAGGCAAGAGCTTCGGCGTGCAGCAAGAGCC  
TCATCATCCACCACCGCAGCCACACCAAGGAGCGGCCCTACGAGTGCCTGAGTGCAGAGAAGAGCTTCAACTGCC  
ACTCGGGCCTCATCCGCCACCAGATGACGACCGCGGCGAGCGGCCCTACAAGTGCTCGGAGTGCAGAGAAGACCT  
ACAGCCGTAAGGAGCACCTGCAGAACCACCAGCGGCTGCACACGGGCGAGCGGCCCTTCCAATGTGCACTGTGCG  
GCAAGAGCTTCATCCGCAAGCAGAACCTGCTCAAGCACCAGCGCATCCACACGGGCGAGCGCCCCTACACGTGCG  
GCGAGTGCAGGCAAGAGCTTCCGCTACAAGGAGTCGCTCAAGGACCACCTGCGCGTGCACAGCGGCGGCCCCGGGCC  
CCGGCGCCCCACGGCAGCTCCCGCCGCTCCTGAGCGAGACTAGGGCTGGGCTGGGGGAGGGCAGGGCCGGACGG  
AGTGGATCGGGGGCGGCCTGAGCACCAACCACCTTGCCGGGTGTCTCAGCCACCGTCTGGAAATCGGCAACAGG  
CATTGCACTCCGGTTGGGGGTCCCCAGGGTGGGGCAGGGATCCCCAGATCTGTCTGGTCTGAATGGACGCCCCAG  
CTCATCTAGGGTGGACCCAGCTGCTGGGGAAGAGCCAGGGGGACCGCGAGGAGCCGAGCGTCTCGGGACCGCC  
CTCACACCTCCTCGAGTGCCCTGGGACCACTGGGCCACAGATGGTCATCAGGGGAAGCCACCAGGGAGTCCCCGAA  
GCCCTTCTGAGATCAGGAAATCAGGTCCCAAGGTTAGGAGACGCCCTGAAAAAAGCGAAGGCCGAGGGATGTGC  
TAAGGGTAACACCTTCATGATGACAACACTGCCTCGCGTTTCAATAGCGCTTTATACTTTTTTAAGTGTCTTCTA  
TCCGTTATCCATTTACCCCTTGGCCTATCCCTCTCAGATAGGTGGGGTAGGATTTTCTGGTGACCGAGTAAAGT  
GAGAGGCAGGTGAGACGGTTACCCAATCACACGGGAAGGGGCGCGCGCTGCCCAACCGCGCTCTCCGCTACCT  
CCGCTGCTCGGGAAGCTGCTGGCCTGGCCCTCCTGGTCTCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT  
TCACCCACGGATAAAACCAGAAGCGACAGGAGGCCAGCTCCTGGGGTTCTTGGGAGCCGGGAACAGATTGGCTAC  
GGAACGCCCCAGGTTGTACATTAGAGGGCTCTTCTCCATGGGAGCTCCTGGTGCCGCTCGGCCCCAGCCTGT  
CCCCAGCCCCCTCAATCTGGTGCAGCAGCATCTTGTCACTGCACAACAGTGGCTGGTCCCCACAGGCAGTTAGG  
GCCCCAGGTACAGCCTACCATGATGATTTGTTCCAGTTCTCCAGGGCAGAGGGGCGAGGGAGAGGCTTTTGTCT  
GTGAGAGTAGCCGTACGTGTCTCTTCCAGCAGCGCCGGGCAAGTGGGTGCTAGAGTCTGAGCCTCAGGCTCTC  
CTGCCCTGGGCTCCCAATTGGTGCTATCTGTTACTGCCCGTGTCTACGGACATGGATACAGACCCTGCTGTGCT  
CCACACCCTGCAGGCGCCTCGGGAAGCGCCCAAAGGATTCCCTTACAGTTGGTGACCTGCTCCATAGCTCCGG  
GCGCTGCGTCCCGAGGGGGCCACAGTCTCCATTTAGCGTCTTGATGGCCTGGCACCGGGTGGGGTGGTATGCC  
CAGGACCCTTGTGTGTCAAAAATGACTTTCCCTGCCCTTGCCGTGGGTCCGGCGTTCTCCAGCCGGGATCA  
CAGTGGGCAGCCGGCACCCGGCACCACTTTGGCGAGCGTCTGCTTCCGCCCTCGCCCTCATCTACGCTGCTCCG

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**FIGURE 2444B**

CTTTCCTCAGACCCCTTTTGGCCGTGCAAAGGGAATTCTTGACATTAAATAAAAGGTATCCAGATTGCAGACTGC  
ATGTTACAGAGCTGGGGGTCTCCAGCTTGCCTACAGTAAAGCCTCAATGAACTGG

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**FIGURE 2445**

MQFVSTRPQPQQLGIQGLGLDSGSWSWAQALPPEEVCHQEPALRGEMAEGMPPMQAQEWMDARRPMPFQFPPFP  
DRAPVFPDRMMREPQLPTAEISLWTVVAIQAVERKVDAQASQLLNLEGRGTAEKKLADCEKTAVEFGNHMESK  
WAVLGTLLQEYGLLQRRLENLENLLRNRNFWVLRLPPGSKGEAPKVPVTFVDIAVYFSEDEWKNLDEWQKELYNN  
LVKENYKTLMSLDAEGSVKPDAPVQAEPREEPCVWEQRHPEEREIPMDPEAGAEPLVPAQDASSQVKREDTLCV  
RGQRGLEERAIPTESITDSPISAQDLLSRIKQEEHQCVWDQQDLADRDIPDPNSESLSAHDILSWIKQEEQPY  
PWGPRDSMDGELGLDSGPSDSLMLVKNPPPPAPPQPQPQPQPQPQLQSQPQPQSLPPIAVAENPGGPPSRGLLDD  
GFQVLPGERGSGEAPPGGDRSTGGGGGDGGGGGGAEAGTGAGGGCGSCCPGGLRRSLLLHGARSKPYSCPECCK  
SFGVRKSLIIHRSHTKERPYECAECEKSFNCHSGLIRHQMTHRGERPYKCSECEKTYSRKEHLQNHQRLHTGER  
PFQCALCGKSFIRKQNLKQRIHTGERPYTCGECGKSFYKESLKDHLRVHSGGPGPGAPRQLPPPPPERD

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**FIGURE 2446**

TCTTGTCCCGGATTAAACAGGAGGAGCATCAGTGC GTGTGGGATCAGCAGGATTTGGCAGACAGAGATATTCCCA  
CGGATCCCTCGGGAAGCGCCCAAAGGATTCCCCTTACGTTGGTGCACCTGCTCCATAGCTCCGGGCGCTGCGTC  
CCGAGGGGGCCACAGTCTCCATTTACAGCGTCTTG CATGGCCTGGCACCGGGTGGGGTGGTATGCCCCAGGACCCTT  
GTTTGTGTCAAAAATGACTTTCCCTGCCCTTGCCGTGGGTCCGGCGTTCCCTCCCAGCCGGGATCACAGTGGGCAG  
CCGGCACCCGGCACCCTTTGGCGAGCGTCTGCTTCCGCCCTCGCCCTCATCTACGCTGCTCCGCTTTCCTCAG  
ACCCCTTTTTTGCCGTGCAAAGGGAATTCTTGACATTAAATAAAAGGTATCCAGATTGCAGACTGCATGTTACAG  
AGCTGGGGGTTCTCCAGCTTGCTACAGTAAAGCCTCAATGAACTGG

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**FIGURE 2447**

AGTGCCTGCGCTTCTTCCAGCAGCGCAAGAGCCTGCTGCTGCACCAGCGCCTGCACACCGGCAATGCGCCAGGGCT  
GGCCCCGCTGCCCCCTACTGCGGCAAGGCCTTCCGCGCGCCCTCGGACCTCTTCCGGCACCAGCGCATCCACACCG  
GTGAGCGGGCCCTACCAGTGCCCCAGTGTGGCCGGACCTTCAACCGCAACCACCACCTGGCCGTGCACATGCAGA  
CCCACGCCCCGAGGCCAGGTGGGCCACACTTCCCTGCGCCCCCGCCGCCACGGGAGCCTGCCCCCTGCCCTGGC  
CCAGCCGGAAGGAGGAGGGCTGACCTGGCAGGAGCCACAGAGGACCCCTGGCGGGGTCTCTCCCTGTGCCCTGA

CGCAGGTTCTTCTTTTCTGGGATGGAGAGAGGTTTGTGTTTTTACCCATTCAAATGGGAAGCTAGCTGCCCT  
TCTGGTGACATTGTGTGTGACCGGTGCTTTCTGTTTCTGTGTTGCACTCTTCGCTGCCTTTTCTGCATTCTGA  
CTTCTAAAAGATGCCTTAAGGCTTAAGGGATGCCATATTTTTGATAAGGCCTCTGGTAGGTACCACAGCCAAGAG  
GACCAGAGATCATGGCCCTTCCAGTATGGGGCGATAGAGACATCGGGGACCTGGGATTTTTGTTTTGTGCAGAG  
ATCTCCTGCCTGCTGTACCATGAGAAACAGTGGAGTGGAGTGGATGGATGGCCTGACTTGAAGAAAGGGCCCTG  
GAAAGTTTTCTACTTTGCTATTTTGAAATTTTTTCCCTTCTTATAGAGACTTTGAAATACTTTGTAAATGTGT  
GTAGTTGTTAATGGAATTTGCCTTTTGCAAAGTCGGAAAGAGTCGGCTTTTCCATGTGAGGCTCGCAGAGCTGA  
AAGGGGAGCTACGTCCACCAGCCTGTGGGTCTTTTGGTTTTTTTTTGTGTTGTTGTTGTTTTTTAAGATGGA  
GTTTCACTCTTGTGCCCAGGCTGGAGTGCAATGGTACAATCTCCGCTCACTGCAACCTCCGCTCTCGGGTTCA  
GGTGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCGCCACCACCCTCCCGCTAATTTTTGTA  
TTTTTAGTAGAGACAGGGTTTCATCATGTTGTCCAGACTGGTCTCGAACTCCTGATGTTAGGTGACCCGCACACC  
TCGGCCTCCTGAAGTGCTGGGATTACAGGCGTGAGCCACCCTCTGGGCCAGCCTGTGGGTTTTGATGGGGATG  
TCTTGGCTGCTGTCTTGGAGGCACAGTGTCTCCCCATGTGTGTGTTCTTGGGCCAGAGTGACTCCCAGTATTCC  
TAGTCCCTCCCCACAGGATAGTCACATCCATTATTTACTTTTGTGTGCTGAGTGGGAGGGGAAACTGAAGCCTGGA  
CACGTCTCCCCAAGGGCTCAGTGTTTCATGGGTGTGTAAGATCCATTGACTGGACCCAGAAAGCACCCCTGAGGGG  
CAGTGACAGAGAGAGCCCAGGAAGCCCTCCACTAGAGGAGGCCCTTGGTCTGGCTGAGGACCACGTCCACCCTGG  
GCCTCCAGGCCTGCTTTTACATTAAAGGCGGGGCAGTCTCCTCTCAAAGGAGTTCTCCCTTGAGCACTTTGGGC  
TCTGGGGCAGAGTTGGGCTAGGAGATCTGGGTGAATCCTTTAGTCACAGCTAGTCTCATGTTCTCTTCTGTCAA  
AGGGGTCTAGGCCCCAGTGTGTCCTACCTCAGAGTTGTGAGGGTCAAAGTAACAGGCACTGGGACAAATATGAAG  
CCTAGCTTTGTGCTTCCTTTCAAATTCAGGGCTCCTTTCTACTCCATTCCAGCCTTTTTTCTCTGTGAGAATCC  
CTCAGGAAGGACCTTTATCTTCTGGAGTGAGTGGCAGTTCCTACTGGGTTCACTGAAAGAGTCGCCCATGGGGCTC  
TGTTCCCCAGGAGTCCTTTGTATTTTGGTGAACAAATCTTACCAAAGCATGAGATTCCGACTGTAGAAGTTCAG  
ACTGCCCTCAGTTCAGACTGCCTCATGGGGCAGTCTGGAGGTCAGCTGGCTTCTGGTGTCTCTCATCACACCACTG  
CGGACGCTGTCTGTAGAGCAGCCTTGGTGTGGGTGACTCTGAAGCTGGAGTGATGGGACCCCACTATCCTTGT  
TTTTACCGCCTTGTCTGGCACTGTGACCACGCTTCAGGGCTGCTTCTGGGGGTCTTGGTCCCTGGATGTGCCATT  
TCCTTGCCCTTCTGACCCTCACACTTCTTCAAAGTCTTGAGCAGAGTTGGGGGCCAATGGTAGCATTGCTGTCA  
TCTCTGGGAGGAGAGTGAGTATACAAGTCAGTGACAGTTCAGCCAGGCTCCCTTGGGTTTGGGAAGAGGCACTGC  
CCTTCTGTGCTGTGGATCCTGTCTGTCTGTCTGGAGTCCCCCACCCTTGCCAGGAGCTTCACAAACCAGAGAC  
GGGCTGTCAGCAAGAGCTCAGACAGGATGTGGTGCAAGTGCAGGTGCACGAGTTTAACCCTCAGCTGCAGGAGCT  
AGTCTCAGGTGTTCTGGGGATGCCTCAGGCTAAGAATTTTGCCGACTTCTGCGGCTTGGTTGGCTAATGCCAAAT  
GCCCCGTGCTTAAATATCACAAGGTGCTGATTCTCCTTTTTTCTTTTTTTCATACCAATGTGCTCAAACCTTTGAGC  
TAGGTCTTGTGAGTTTGCCTAGCACTCAGACCTGTTTAAGTAACGTTCTTTACATTGAAACAAGTCAACCGAAGC  
TTTGTGGTGCAGGAGCTGAGGGTGCCCCAGACTCAGTGGGAGCCCTGGTTGGGGCCCCAACTCTCCAGCAGGGT  
CCTCGGTTTCTCATTGTGAAATAAATGAGTGGGCCACGACGTTAATAAGCCCAAGAGAACTGTGAAGGTGGTA  
GTCCCTTGCCCTAATTGGTGCTCAATAAAGTTGTTGGCAT

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**FIGURE 2448**

MARAGPPAPTAARPSAGPRTSSGTSASTPVSGPVSAPSVAGPSTATTWPCTCRPTPEARWAHTSLPPPPATGAC  
PCPGPAGRRRADLAGAHRGPLAGSLPCA

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**FIGURE 2449**

GCACGAGGCCAGCTTGGCCAGTGGCTCCGCAGGCTGCCGGCTCCACCCCTCAGGGACTGGCTGGCTTCGAGCAGG  
GCATCGGAACCAGGCCTCCTGGCACTGGCCTGGGTAGAGCCAGGGCGAGCACCAGCTGACCCCACTGGAAACCCT  
GTGACAGTCCTGCCAGGGCCCCAGGCCATCCCAACCGACTTCCATCTCATGGACCCTCCAGCGGAGAAGCCGGGAG  
AGGCTGGCGGACTGCAGATCACACCCCACTGCTGAAGTCACGCACAGGCGAGTTCTCCCTGGAGTCCATCCTGC  
TACTGAAGCTGCGTGGCTTGGGACTGGCTGACCTGGGCTGCCTGGGAGAGTGCCTGGGCTGGAGTGGCTGGACC  
TATCAGGCAACGCGCTCACCCACCTGGGCCCCGCTGGCCTCCTTGCGCCAGCTAGCTGTGCTCAATGTCTCCAACA  
ATCGGCTGACGGGCTGGAGCCACTGGCCACCTGTGAGAACTTGAGAGTCTCAATGCCGCAGGCAACCTACTGG  
CCACCCCGGGCCAGCTGCAGTGTCTGGCTGGGCTACCGTGCCTGGAGTACCTGCGGCTCCGAGACCCCTTTGGCCC  
GGCTCAGCAACCCGCTCTGTGCCAACCCCTCCTACTGGGCTGCAGTCCGGGAGCTGCTGCCTGGCCTGAAAGTCA  
TCGACGGTGAGCGTGTGATTGGGCGTGGTAGTGAGTTCTACCAGCTGTGCCGAGACCTGGACAGCTCCTTGCGTC  
CCAGCTCCAGTCCAGGCCCCAGAGCCACCGAGGCCCCAGCCCTGGGTGGAGCCAGGCTACTGGGAGTCCCTGGCCCA  
GCCGGAGCAGCTCCATCCTGGAGGAGGCTGCCGGCAGTTCCAGGACACACTGCAGGAGTGTGGGACCTGGAC  
GCCAGGCCAGCGACAGCCTGGCCCAGGCGGAGCAGGTACTCAGCTCTGCGGGCCCCACCTCTTCCTTCGTCTTCT  
GAACGTGGCCTATGGCCCAGGACAGCCTGGCAGGTGGCCTCGCTGCCCCCAGTTCCCTCTCTGCCCCACACTC  
GTCTTAGTTGCTTACACTGGTCACTGGCCCTGCACACTGGGCTATTGCTTTATCCCTATCCTGAGAGCAGCCCC  
TCCCCACCATCCCTCCACATGCTGCAAGGACAGACTGAAGGGCTGTGAGCAGGTGTAAGGGCTCCACATCCGTG  
AGCCTGTGTCCGCAGCTGCTGCCACTCTGGGCTGCTCCAGCCTGCAACTTAGTGGAAGGAATTACTTCCTCCTGA  
GGCTACAGGCGAGAAAGGTAGGGATGGGCCAGCCTCCCGTCTCAGCTGTTGGGAGACAGTAGGCAGGCTGAGTGG  
CCCAGAGCACTCCTGGAAGTGGGACTCCCCTGCCTTGCAAATGTGCCTCTCCAGACTGCTCCTGCACTTACCCCC  
TCCCCGAGCACCTTCTCTGCCCCTTCTTGTCACACATCTATTAAATGCTTCTGTTTTCAAAAAAAAAAAAAA  
AAAAA



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**FIGURE 2450**

MDPPAEKPGGEAGGLQITPQLLKSRGTGEFSLESILLKLRGLGLADLGCLGECLGLEWLDLSGNALTHLGPLASLR  
QLAVLNVSNNRLTGLEPLATCENLQSLNAAGNLLATPGQLQCLAGLPCLEYLRRLRDPLARLSNPLCANPSYWAAV  
RELLPGLKVIDGERVIGRGSEFYQLCRDLDSLRPSSSPGPRATEAQPWVEPGYWESWPSRSSSILEEACRQFQD  
TLQECWDLDRQASDSLAAEQVLSSAGPTSSFVF

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**FIGURE 2451**

GGCAGGCACCAGCTGGGGAAGGCTGGTGTTCGCTTGTGCGCCACATTCTGGAGCCCGGCAGACAGCCTCAGCAAG  
CTCCTGTAGCCCTTCCAGATGGTGGTCCGCGAGGCGAGTGCAGGCACAGGCCTCTCTGAGCCAGGTGCTGCCCCAG  
CTGCGCTACCTGCACATCTTCTGGAGCAGGTTACACACACTTTTCAGGAGCAGAGTGTGCGGGAGAGGGGCGCA  
GCCATCCAGCTGGCTGAGGGGTGGCCCGGCAGCTCTGCACCGACTGTCTAGCTCAACAAGCTCTTCTACCGCGAG  
GAGTTTGTGCTGGCCACCTTGGTGGACCTTGTCTCAAGGGGAAGATTGAGGCCATCTGCCATGGGGGCGGACC  
GACATTGACCACTGGAAGCAAGTCTCTGTGTACAAGGTGAAGGAGATTAGAGTGTCTGAATACTCTTTGAACTCC  
CCAAGTCCCCTGCAAAGCCCCAGGGTCTGTGCGTGGACCCACCAGGGTAGCCAAGAGCTCCGGGGTGGAGGGG  
AGAAGCCAGGGGAGCCTCTGCAGAGCAGCAGCCACTCTGGGGCCTTCTGCTGGCCAGAGGGAGAAGGGCTTG  
CTGGAGAGCATGGGGCTGCTGGCCTCTGAGAGAAGCGGGGGCTCGCTGTCCACCAAGAGCCACTGGGCCAGCATC  
ATTGTCAAGAAGTATCTGTGGGAGAATGAGACCGTTGGAGCCAGGATGACCCCTGGCTTACTGGGAGAAGAAG  
CGAGAAGCCTGGCCACCATCTATCTGTCTTACCCCCACAGGAGCCTTCTCTGAAAGCATCTTTGCCCTCCCTGAA  
CAGCCCCACCCTTGTAGAGCAAACTCTTCTCTCAAGGTGGAAGCCATTGAGCATCTCCTCTTCTTGAAGGCCAA  
CCTGGAGCAGTTCCCCAACTACACCCCGCCTCCCTCATCTGCTCTAGTGGTGACCTGGCCAAGGGGATACAGAC  
CCTGCAGTCCGCTCAGGGTGGGATGGCAGACATGGCAGGTGCCGGTGTCTACCCCTGCCCCGTAAGTCTTAGAGAG  
CCCCTGCCTGTAATAGGTCAAAGCAGAGAGCTGGGTGTGTCATCCTGGGCGCCACATGCTCATGGCCAGAATCTT  
AAACCTATTTGGTAGGAAAGGGTCAGTTTCTCACTTGACAGATTGCCATATTTTTTTTTTCTGGGAGATGTCATTT  
TCCATCTCCCGATTACTTCTTTACGTCTAGCAGTATGTGCCGAGAAGAGGCTTACTCTCTTCGTAGGTGACTGT  
GAATTTTGTACTACGTGGCTTTGTACATGTGATGCTCTGTTAAAACATAAGTGGGTATGAAGGTCTTGCATACA  
CCTTGTCTGTGTGGATAAGTGGACACATGCCCTTAAGAGGCTTGCTTTCTCAAAAAGTGGCCAAGGATGTGGAGT  
GGGCATGTGCTGGCAGGTGGGATATGTCTCAGCCTTTGGGGGCTGGATAAGCTATTGCAGCACTTCTGAGGC  
TTTCACTGTAGGGAGAAGGAAACCCCAAGGGTAGAATAGCCATTTCCAGAGGGAAGTACACACATACCCCCACAC  
ACCAGTCTTTTTGGGGGTTTCAGAGTGGCCGGAGAAACCGACTGAAGGGACTGACCAGCTAGCTAGGAGAGCTGA  
GACGCCAGTCTCAAATGGCGTTCTTACCAATAGTCTATTTCCAGACTACTGGAAACGTTGGGGTTCTTCTCTCC  
AGTGACAGCAGCCTCAGTAGCTTTCTGGGCTCCAGGCGGCTGGCTGCACACCCTGCCTGCCATCACCCCTTGCCC  
CTGCTTGTCTGGACCACTTTTAAAGGGGAAGTCCCTTATTTGGAAGAGAGAAAGGATGTGTGTAGCACACACTC  
ATCATGGATTGCTCAGAGTTCTTTAGGGCAGAGCTGAGGGCTGGGATCCAGGAACAGTGGGATTGGATGGGA  
GAAGAAGGAAGGGGGTGGCCCGTCACCCCGCAAGACTTGTCATCCAGGTAGCCTAAGGACTCCTGGTCACTGGGT  
AGGGTGGCTGCTGAGATGCAGGTCCGAAGAGGCAGGGGAAGGCTCCAGGCCTAACTTGGAGCATGTCACTGGCCA  
TGGGGGTGAGGGGACAGACTCTGCTCTCACTGGCTGGCAGCCCCAGGAGCCTGTTCCCTTGCCCTCTCTGGATGG  
GTTGTGAGCCCTGTGTTTCACTGTGACCAATTCATTATAACATTTGGATATTACTGAAAATGTAAGGAAGCAGGA  
AAAATTAACACTTTTCACTCAGAGATAGCCTCTATCAATAGTTTGACATTTTTCCCTCTTTTACATTGAGATCAT  
ACCCTAGGTACTGTTTAGTATGCAATATTTTCATTTTCGCAGTATAATAATTGCACCTGTTAAATAAAGTTTTGT  
AAACATTTAAAAA

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**FIGURE 2452**

MVREASAAQASLSQVLPQLRYLHIFLEQVHTHFQEQSVGERGAAIQLAEGLARQLCTDCQLNKLIFYREEFVLAT  
LLDPCFKGKIEAILPWGPTDIDHWKQVLVYKVKEIRVSEYSLNSPSPSQPRGLCVDPTRVAKSSGVEGRSQGEP  
LQSSSHSGAFLLAQREKGLLESMGLLASERSGGSLSTKSHWASIIVKKYLWENETVGAQDDPLAYWEKKREAWPP  
SICLTPHRSL

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**FIGURE 2453**

CTTGAAATGTTATCTAAAAACCCAAGATTGAAATAATACATACCACACAAGGAAACAGGAGAGTAGTCTAGCTCC  
ATGTCCGGGGCTCTAGGGGTTTCATAGATGGCAGCTCCTGTCCGGGGCTGAGGTTGGGAGGGGAGAAACAGGGGCA  
GAGTGAGTTGGTCTCTGGAGTGACTGTGCTTTTCCACCCTCAGCAGAGGAAGAACCAGATGCTGGAACGTCGTTGC  
AGGGGCCCCCTGGCCATGGGCCTGGCCAGCCCCGACTCCTTTCTGGGCCCTCCAGGAGTCACCCAGACCCTG  
GGGAAGGAGTCCCGCGGGCTGAGGCAACAAGGCACGTCACTGGCCAGTCTGGTGCCCAAGCCCCAGGCAGGGCC  
CATCGCTGTGCCCCACTGTGCAAGGCACTTCCCTGGCTGGGTGGCTCTGTGGCTTCACACCCGCCGGTGCCAGGCC  
CGGCTGCCCTTGCCCTGCCCTGAGTGTGGCCGTGCTTTTCGCCATGCCCTTCTTAGCACTGCACCGCCAGGTC  
CATGCTGCTGCCACCCAGACCTGGGCTTTGCTGCCACCTCTGTGGGCAGAGCTTCCGAGGCTGGGTGGCCCTG  
GTTCTGCATCTGCGGGCCCATTCAGCTGCAAAGCGGCCCATCGCTTGTCCAAATGCGAGAGACGCTTCTGGCGA  
CGAAAGCAGCTTCGAGCTCATCTGCGGCGGTGCCACCCTCCCGCCCCGAGGCCCCGGCCCTTCATATGCGGCAAC  
TGTGGCCGGAGCTTTGCCCAGTGGGACCAGCTAGTTGCCACAAGCGGGTGACGTAGCTGAGGCCCTGGAGGAG  
GCCGCAGCCAAGGCTCTGGGGCCCCGGCCAGGGGCCGCCCGCGGTGACCGCCCCCGGCCCGGTGGAGATGCC  
GTCGACCGCCCCCTTCAGTGTGCTGTTGTGGCAAGCGCTTCCGGCACAAGCCCAACTTGATCGCTCACCGCCGC  
GTGCACACGGGCGAGCGCCCCACCAGTGCCCCGAGTGCGGGAAGCGCTTTACCAATAAGCCCTATCTGACTTCG  
CACCGGCGCATCCACACCGGCGAGAAGCCCTACCCGTGCAAAGAGTGCGGCCGCCGCTTCCGGCACAACCCAAAC  
CTGCTGTCTCACAGCAAGATTACAAGCGATCCGAGGGGTCGGCCAGGCCGCCCGGCCCGGGAGCCCCCAG  
CTGCCAGCCGGCCCCCAGGAGTCCGCGGCCGAGCCACCCCGCGGTACCTCTGAAACCGGCCAGGAGCCGCCG  
CCAGGGGCCCCGCCAGAGCACCCGCGAGACCCGATCGAAGCCCCCCCCCTCCCTCTACAGCTGCGACGACTGCGGC  
AGGAGCTTCCGGCTGGAGCGCTTCTGCGGGCCACCAGCGGCAGCACACCGGGGAGCGGCCCTTCACCTGCGCC  
GAGTGCGGGAAGAAGTTTCGGAAGAAGACGCACCTGGTGGCGCACTCGCGCGTGCCTCCGGCGAGCGGCCCTTC  
GCCTGCGAGGAGTGCGGCCGCCGCTTCTCCAGGGCAGCCATCTGGCGGCGCATCGGCGCGACACGCCCCCGAT  
CGGCCCTTCGTGTGTCCGACTGCGGCAAGGCCTTCCGCCACAAACCCTACCTGGCGGCGCACCGGCGCATCCAC  
ACCGGCGAGAAGCCCTACGTCTGCCCCGACTGCGGCAAGCCCTCAGCCAGAAGTCCAACCTGGTGTGCGACCGG  
CGCATCCACACGGGCGAGCGGCCCTACGCCTGTCCCGACTGCGACCGCAGCTTCAGCCAGAAGTCCAACCTCATC  
ACCCACCGCAAGAGCCACATCCGGGACGGCGCCTTCTGCTGTGCCATCTGTGGCCAGACCTTCGACGACGAGGAG  
AGACTCCTGGCCCACCAGAAGAAGCACGATGTCTGAGACGGTGGGCGGGGCCGTGTTGGCTGAGAGAGGGCTGGG  
GTCCTTCGTGGTGGGAGTCGCACTGGGCTGGGGGTGCCTGCCTAGTGCTGGAGTAGGGGACAATGGGAATCCTAG  
AGGGGATGGAAGACGCGGGGAGTGAGCTGGGTGGGCCCTGCTAGCGAGAGAGGTCAACCCCGGTGGCCAGGGAAC  
CCACTTCCAAGCGCAGGGACGCCGGCCTCCAGCTGGTGTGTGCTAAGGCTCCGTCCTGACTGCCCTGTGCCCTGG  
AAAAGCAGCAATAGCATCCGCCCCCTTAGAGCCCTCTGGCTAGAGGAGCCACCAGTGGAAAGGAAGACCCCTCCATC  
CTCTGGTATTAACGCCTTAATGCCCCCTGTCTTTTACTGTAAGTTACTTAAGATCATTTCCTGGAAGCAGGCGTGGT  
AGAGTCCTGTAAATGAATGCTCTGGGCTAGATACAGCTTGGAGAACCCTGCTGGCCTTGTTAGACAGCACTTGGGC  
CTTTGCCAGCAGCAAGAGGTGAAGCGAAGCCACTCTTACCTCTCCCTTCCCCTCCCACCTGCCCCCTGCGTAGGC  
ACCCAGACTTGGAGAGACCCGTCTGCTGTTAATACTTCCATCCTCTTCCCTTCCCAAAGAGCAGATCCCAAGGCAT  
TTACTCCTTGGTCTGTCTCGCTTTATCTGTGCCCCCTCCAGCGCTGAGAGCCTCCCTGGCTGTCAGCAGCACT  
GTGTCCAGGCTCTTGTCTGAACACCGCAGCCCCCTCCTTCGCTCCTTCCAGAGCTCAGCATGTCACGGCAAGGACT  
GCCGCATTGGTGATGGAGGGCCAGCTGAGGGGAAGTTGCTGGTGAGTTTCCTTTTCTCCATTTCTAGCATATGGA  
CACCTGGCCTCTGCTTGAGCACTTAGGTGACAGGAACCTCCGCACCTCCTGAGGCCCTGGATGATTCTAATTGTT  
AGAAATTCTAATTGTTAGAAATCCTTCCTTATAATGAATGAATTCTGCTTTCTATAATTTCTACCTATTGGGCC  
TTGTTCTGTTCTCTGGAACATAACAGAACACCATTTACCCCTCCTTTTCAAACCTAGAGAATAAAGATTGTTT  
TAG

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**FIGURE 2454A**

GGGGAGCCGGGAGCCGAGCGAGGACCCGGCGCCCGCAGTCCAGTCTTGGCCGCGCCCGTGCTCGGCTTGCCGCG  
GGGTGCGGGGACCACGGCCCGGGCCGCCACCCGAAGCCTAGTGCTGGGCGGGCCGGGCGGGGTGGGTGGGGG  
CCCCCCCCGGCCCGCCATGGGCTCAGGATGCCGGTGCGGAGGGGCCACGTGCGCGCCGAGAACACCTTCCTGGAC  
ACCATCATCCGCAAGTTTGGAGGCCAGAGCCGTAAGTTCATCATCGCCAACGCTCGGGTGGAGAACTGCGCCGTC  
ATCTACTGCAACGACGGCTTCTGCGAGCTGTGCGGCTACTCGCGGGCCGAGGTGATGCAGCGACCTGCACCTGC  
GACTTCCTGCACGGGCCGCGCACGCAGCGCCGCGCTGCCGCGCAGATCGCGCAGGCACTGCTGGGCGCCGAGGAG  
CGCAAAGTGGAATCGCCTTCTACCGAAAGATGGGAGCTGCTTCCTATGTCTGGTGGATGTGGTGCCCGTGAAG  
AACGAGGATGGGGCTGTGCATCATGTTTCATCTCAATTTGAGGTGGTGTGAGAGAAGGACATGGTGGGGTCCCCG  
GCTCATGACACCAACCACCGGGGCCCCCCCCACCAGCTGGCTGGCCCCAGGCCGCGCCAAGACCTTCCGCCTGAAG  
CTGCCCCGCGCTGCTGGCGCTGACGGCCCGGAGTCGTGGTGCGGTGCGGCGGCGCGGGCGGGCGGGCGCCCCG  
GGGGCCGTGGTGGTGGACGTGGACCTGACGCCCCGCGGCACCCAGCAGCGAGTCGCTGGCCCTGGACGAAGTGACA  
GCCATGGACAACCACGTGGCAGGGCTCGGGCCCCGCGGAGGAGCGGCGTGCCTGGTGGGTCCCGGCTCTCCGCC  
CGCAGCGCGCCCCGGCCAGCTCCCATCGCCCCGGGCGCACAGCCTCAACCCCGACGCCTCGGGCTCCAGCTGCAGC  
CTGGCCCCGACGCGCTCCCCGAGAAAGCTGCGCCAGCGTGCGCCGCGCCTCGTCCGCCGACGACATCGAGGCCATG  
CGCGCCGGGGTGCTGCCCCCGCCACCGCGCCACGCCAGCACCGGGGCCATGCACCCACTGCGCAGCGGCTTGCTC  
AACTCCACCTCGGACTCCGACCTCGTGCGCTACCGCACCATTAGCAAGATTCCCCAAATCACCTCAACTTTGTG  
GACCTCAAGGGCGACCCCTTCTTGGCTTCGCCCCACAGTGACCGTGAGATCATAGCACCTAAGATAAAGGAGCGA  
ACCCACAATGTCACTGAGAAGGTACCCAGGTCTGTCCCTGGGCGCCGACGTGCTGCCTGAGTACAAGCTGCAG  
GCACCGCGCATCCACCGCTGGACCATCCTGCATTACAGCCCCCTCAAGGCCGTGTGGGACTGGCTCATCTGCTG  
CTGGTCATCTACACGGCTGTCTTACACCCTACTCGGCTGCCTTCCTGCTGAAGGAGACGGAAGAAGGCCCGCT  
GCTACCGAGTGTGGCTACGCTGCCAGCCGCTGGCTGTGGTGGACCTCATCGTGGACATCATGTTTATTGTGGAC  
ATCCTCATCAACTTCCGCACCACCTACGTCAATGCCAACGAGGAGGTGGTCAGCCACCCCGGCCGCATCGCCGTC  
CACTACTTCAAGGGCTGGTTCTCATCGACATGGTGGCCGCCATCCCCCTCGACCTGCTCATCTTCGGCTCTGGC  
TCTGAGGAGCTGATCGGGCTGCTGAAGACTGCGCGGCTGCTGCGGCTGGTGCGCGTGGCGCGGAAGCTGGATCGC  
TACTCAGAGTACGGCGCGGCCGCTGCTGTTCTTGCTCATGTGCACCTTTGCGCTCATCGCGCACTGGCTAGCCTGC  
ATCTGGTACGCCATCGGCAACATGGAGCAGCCACACATGGAATCACGCATCGGCTGGCTGCACAACCTGGGCGAC  
CAGATAGGCAAAACCCTACAACAGCAGCGGCCCTGGGCGGCCCTCCATCAAGGACAAGTATGTGACGGCGCTCTAC  
TTCACCTTCAGCAGCCTCACAGTGTGGGCTTCGGCAACGTCTCTCCCAACACCAACTCAGAGAAGATCTTCTCC  
ATCTGCGTCACTGCTATTGGCTCCCTCATGTATGCTAGCATCTTCGGCAACGTGTGCGGCTCATCCAGCGGCTG  
TACTCGGGCACAGCCCGCTACCACACACAGATGCTGCGGGTGCGGGAGTTTATCCGCTTCCACCAGATCCCCAAT  
CCCCTGCGCCAGCGCCTCGAGGAGTACTTCCAGCAGCCTGGTCTTACACCAACGGCATCGACATGAACGCGGTG  
CTGAAGGGCTTCCCTGAGTGCCTGCAGGTGACATCTGCCTGCACCTGAACCGCTCACTGCTGCAGCACTGCAAA  
CCCTTCCGAGGGGCCACCAAGGGCTGCCTTCGGGCCCTGGCCATGAAGTTCAAGACCACACATGCACCGCCAGGG  
GACACACTGGTGATGCTGGGGACCTGCTACCGCCCTGTACTTTCATCTCCCGGGGCTCCATCGAGATCCTGCGG  
GGCGACGTGCTCGTGGCCATCCTGGGGAAGAATGACATCTTTGGGGAGCCTCTGAACCTGTATGCAAGGCCTGGC  
AAGTCGAACGGGGATGTGCGGGCCCTCACCTACTGTGACCTACACAAGATCCATCGGGACGACCTGCTGGAGGTG  
CTGGACATGTACCCTGAGTTCTCCGACCACTTCTGGTCCAGCCTGGAGATCACCTTCAACCTGCGAGATACCAAC  
ATGATCCCGGGCTCCCCCGGAGTACGGAGTTAGAGGGTGGCTTCAGTCGGCAACGCAAGCGCAAGTTGTCTTTC  
CGCAGGCGCACGGACAAGGACACGGAGCAGCCAGGGGAGGTGTGCGCCTTGGGGCCGGGCGGGGCGGGGCGAGG  
CCGAGTAGCCGGGGCCGGCCGGGGGGGCGGTGGGGGGAGAGCCGTCAGTGGCCCCCTCCAGCCCTGAGAGCAGT  
GAGGATGAGGGCCAGGCCGAGCTCCAGCCCCCTCCGCCTGGTGCCTTCTCCAGCCCCAGGCCCCCGGAGAG  
CCGCCGGGTGGGGAGCCCCCTGATGGAGGACTGCGAGAAGAGCAGCGACACTTGCAACCCCTGTGAGGCGCCTTC  
TCAGGAGTGTCAACATTTTCAGCTTCTGGGGGGACAGTCGGGGCCGCCAGTACCAGGAGCTCCCTCGATGCCCC  
GCCCCACCCCCAGCCTCCTCAACATCCCCCTCTCCAGCCCGGGTGGCGGGCCCCGGGGCGACGTGGAGAGCAGG  
CTGGATGCCCTCCAGCGCCAGCTCAACAGGCTGGAGACCCGGCTGAGTGCAGACATGGCCACTGTCTGCACTG  
CTACAGAGGACAGATGACGCTGGTCCCCCGCCCTACAGTGTGTGACCACCCCGGGGCTGGCCCCACTTCCACA  
TCCCCGCTGTTGCGCGTCAGCCCCCTCCCCACCTCACCTTGGACTCGCTTTCTCAGGTTTCCAGTTTCATGGCG  
TGTGAGGAGCTGCCCCGGGGGCCCCAGAGCTTCCCCAAGAAGGCCCCACACGACGCCTCTCCCTACCGGGCCAG

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**FIGURE 2454B**

CTGGGGGCCCTCACCTCCCAGCCCCTGCACAGACACGGCTCGGACCCGGGCAGTTAGTGGGGCTGCCCAGTGTGG  
ACACGTGGCTCACCCAGGGATCAAGGCGCTGCTGGGCCGCTCCCCTTGGAGGCCCTGCTCAGGAGGCCCTGACCG  
TGGAAGGGGAGAGGAACTCGAAAGCACAGCTCCTCCCCAGCCCTTGGGACCATCTTCTCCTGCAGTCCCCTGGG  
CCCCAGTGAGAGGGGCAGGGGCAGGGCCGGCAGTAGGTGGGGCCTGTGGTCCCCCACTGCCCTGAGGGCATTAG  
CTGGTCTAACTGCCCCGAGGCACCCGGCCCTGGGCCTTAGGCACCTCAAGGACTTTTCTGCTATTTACTGCTCTT  
ATTGTTAAGGATAATAATTAAGGATCATATGAATAATTAATGAAGATGCTGATGACTATGAATAATAATAATTA  
TCCTGAGGAGA

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## FIGURE 2455A

AGTCCAGAGCGAGCGGGTTATGCCTCCGCCTCGTTGCCCTGAAAGCCGCAGCGACAGCGAAAAAGGGCTAAGATT  
GGCCATGAGCAGCGCCCCCTCGGCGCCCCGCCAAGGGCGCAGATTCTTTCTGTACGCCAGAGCCAGAGAGCTTGGG  
CCCTGGGACGCCTGGGTTCCCCGAGCAGGAGGAAGACGAACTTCACCGCACCCCTGGGCGTGAGCGGTTTGAGGA  
GATCCTACAGGAGGCCGGGTCTCGTGGAGGGGAGGAGCCAGGCCGCAGCTATGGGGAGGAAGACTTTGAGTACCA  
CCGCCAGTCTCCACCACATCCATCACCCTGTCCACCCACCTGCCTCCGGATGCACGCCGCCGCAAGACACC  
CCAGGGCCCAGGACGGAAGCCTCGAAGGCGCCCGGAGCCTCCCCGACTGGAGAAACCCCGACCATTGAGGAGGG  
GGAGGAAGATGAGGATGAGGCCAGCGAGGCTGAGGGGGCCCGGGCTCTCACTCAGCCGTCCCCTGTCTCCACACC  
CTCCTCGGTGCAGTTCTTTCTCAAGAGGATGACAGTGCTGACCGGAAGGCAGAGAGGACCAGTCCATCTTCCCC  
TGCACCACTGCCCCACCAGGAGGCGACTCCTCGGGCCTCAAAGGGGCCAGGCTGGAACCCAGGTGGAGGAGGC  
GGAGGCGGAGGCGGTGGCGGTGGCCAGTGGCACTGCAGGGGGTGACGACGGGGGTGCCTCGGGGCGCCCCCTGCC  
CAAAGCCCAGCCTGGGCACCGCAGCTACAACCTTCAGGAGAGGAGGCGCATCGGGAGCATGACTGGGGCTGAGCA  
GGCACTGCTGCCCCGGGTCCCCACGGATGAGATTGAGGCCAGACGCTGGCCACGGCCGACCTAGACCTCATGAA  
GAGTACCGGTTTGAGGACGTTCTTGGGGTGCGGCGGCACTTGGTGCGGAAGAATGCCAAAGGTTCCACACAGAG  
TGGCCGAGAAGGGCGGGAGCCTGGCCCCACACCTCGGGCCCGACCCCGGGCCCCCACAAGCCCCATGAGGTGTT  
TGTGGAGCTGAATGAGTTGCTCCTGGACAAAAACCAGGAGCCCCAGTGGCGGGAGACAGCTCGCTGGATCAAATT  
TGAAGAGGACGTGGAGGAGGAGACTGAGCGCTGGGGGAAGCCCCACGTGGCCTCCCTCTCCTTCCGCGAGTCTCCT  
GGAGCTCCGCGAGGACCCTGGCCCCATGGGGCTGTGCTCTTGATCTGGACAGCAGACCCTGCCCCGAGTGGCCCA  
CCAGGTGGTGGAGCAGATGGTCATCTCTGACCAGATCAAGGCCGAGGACAGGGCCAAAGTGTGCGGGCTCTGCT  
GTTGAAACACAGCCACCCAAGTGATGAGAAGGACTTCTCCTTCCCCGCAACATCTCAGCTGGCTCCCCTGGGCTC  
CCTGCTGGGGCATCACCATGGTCAGGGGGCTGAGAGTGACCCCCACGTACCGAGCCTCTCATGGGAGGTGTTCC  
TGAGACCCGGCTGGAGGTGGAGCGAGAGCGTGAGCTGCCGCCTCCAGCACCACCAGCTGGCATACCCGCTCCAA  
GTCCAAGCACGAGCTGAAACTGCTGGAGAAGATTCTTGAGAATGCCGAGGCCACGGTGGTCTTGTGGGCTGCGT  
GGAGTTCTCTCCCGCCCCACCATGGCCTTTGTGCGGCTCCGGGAGGCTGTGGAGTTGGACGCGAGTGTGGAGGT  
GCCGGTGCCTGTGCGTTTCTCTTCTGCTGCTGGGCCCCGAGTAGTGCCAACATGGACTACCACGAGATCGGCCG  
CTCCATCTCCACCCTCATGTGACACAAGCAATTCCACGAGGCGACCTACCTGGCTGACGAGCGGGAGGACCTGCT  
GACGGCCATCAACGCCTTCTTGACTGCAGCGTGCTGCTGCCGCCTTCAGAAGTGCAGGGCGAGGAGCTGCTGCG  
CTCTGTGGCCCACTTCCAGCGCCAGATGCTCAAGAAGCGAGAGGAGCAGGGCCGGCTGCTACCTACAGGGGCTGG  
GCTGGAGCCCAATCTGCCCAAGATAAGGCGCTCCTGCAGATGGTAGAGGCGGCAGGGGCAGCTGAAGATGATCC  
CCTTCGGCGGACGGGGCGGGCCTTTGGGGGGCTGATCCGAGATGTGCGGCGCCGCTATCCCCACTACCTGAGTGA  
CTTCCGAGATGCACCTTGACCCTCAGTGCTTGGCCGAGTCATCTTCACTACTTTGCCGCCCTGTCTCCTGCCAT  
CACCTTTGGGGGGCTGCTGGGAGAGAAGACGCGAGGACCTGATAGGGGTGTGCGGAGCTGATTATGTCCACAGCGCT  
CCAGGGCGTGGTCTTCTGCTGCTGGGTGCCAGCCCCCTGTTGGTGATCGGCTTCTCAGGGCCCCCTGCTGGTCTT  
TGAGGAGGCTTCTTCTGTTCTGTAGCAGCAACCACCTGGAGTACCTGGTGGGCCGTGTGTGGATCGGCTTCTG  
GCTGGTGTCTTGGCCCTGCTCATGGTGGCCCTGGAGGGGAGCTTCTGGTCCGCTTCTGCTCCTCGCTTACCCCA  
GGAGATCTTCGCTTCTTGATCTCACTCATCTTCACTATGAGACCTTCTACAAGCTGGTGAAGATCTTCCAGGA  
GCACCCCTGCATGGCTGCTCAGCCTCCAACAGCTCAGAGGTGGACGGCGGTGAGAACATGACATGGGCCGGGGC  
AAGACCCACGCTGGGGCCGGGCAACAGGAGCTTGGCTGGGCAGTCTGGGCAGGGGAAGCCCCGGGGCCAGCCAA  
CACGGCCCTGCTGTGCTGGTGCTCATGGCCGGCACCTTCTTCATCGCCTTCTTCTGCGCAAATTCAAGAACAG  
CCGGTCTTTCTTCTGGCCGATCCGGCGGGTGATTGGGGACTTTGGGGTGCCCATCGCCATCCTCATCATGGTGCT  
TGTGGATTACAGTATTGAGGACACCTATACCCAGAAGCTGAGCGTTCCAGTGAGTTCTCGGTGACTGCCCCAGA  
AAAGAGGGGCTGGGTCATCAACCCCTGGGAGAGAAGAGCCCCCTTCCCTGTGTGGATGATGGTTGCCAGCCTGCT  
GCCCCCATCCTGGTCTTCACTTCTCATCTTTCATGGAGACACAGATCACCACGCTCATCATCTCCAAGAAGGAGCG  
CATGCTGCAGAAGGGCTCCGGCTTCCACCTGGACCTGCTGCTCATCGTGGCCATGGGCGGCATCTGTGCCCTCTT  
TGGCCTGCCCTGGTTGGCTGCTGCCACTGTCCGCTCTGTCACTCACGCCAACGCGCTCACTGTATGAGCAAGGC  
TGTGGCACCTGGGGACAAGCCCAAGATTGAGGAAGTCAAGGAGCAGCGGGTGACGGGGCTGCTGGTTGCCCTGCT  
TGTGGGCTCTCCATAGTTATCGGGATCTGCTCCGGCAGATCCCCCTGGCCGTGCTCTTTGGAATTTTCTGTA  
CATGGGAGTCACCTCCCTTAACGGGATCCAGTTCTATGAGCGGCTGCATCTGCTGCTCATGCCGCCCAAACACCA  
CCCAGATGTCACTTACGTCAAGAAGGTCCGGACCCTCCGTATGCACCTGTTACGGCCCTGCAGCTGCTCTGCCT

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**FIGURE 2455B**

GGCCCTGCTCTGGGCCGTCATGTCCACAGCTGCCTCCCTGGCCTTCCCCTTCATCCTCATCCTCACAGTGCCGCT  
CCGCATGGTGGTGCTCACCCGTATCTTCACCGACCGAGAGATGAAATGTCTGGATGCTAACGAGGCAGAGCCGGT  
GTTTGATGAGCGGGAGGGTGTGGACGAGTACAATGAGATGCCCATGCCTGTGTAGCCGCCACCGAGGGACAGCCG  
AGGGACCGATGGACGAGGGGACAGGCTGGTGGGATGGGGTTCCCCCTCCCATGCCCTCCCTCCTTTTTATTAA  
GTGAATAATTTAAAGTCTTCTCCTCCCCACTGCCCTGCAGTAAAGTGCTTTGGCCCCCA



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**FIGURE 2456**

GCGGCGGCGGGGAAGGAGGGGTGCTTCAGGTGCCTGCGACCTCCGCGCCTCCCGCCCGGAAGTGCCCGAGGGGGCC  
GCGATGGAGCTGGGGGAGCCGGGCGCTCGGTAGCGCGGGCAAGGCAGGCGCCATGACCCCTGATTGAAGGGGT  
GGGTGATGAGGTGACCGTCCTTTTCTCGGTGCTTGCCTGCCTTCTGGTGCTGGCCCTTGCTGGGTCTCAACGCA  
CACCGCTGAGGGCGGGGACCCACTGCCCCAGCCGTGAGGGACCCCAACGCCATCCCAGCCCAGCGCAGCCATGGC  
AGCTACCGACAGCATGAGAGGGGAGGCCCCAGGGGCAGAGACCCCAAGCCTGAGACACAGAGGTCAAGCTGCACA  
GCCAGAGCCCAGCACGGGGTTACAGCAACACCGCCAGCCCCGGACTCCCCGAGGAGCCCCCTCGTGCTACGGCT  
GAAATTCCTCAATGATTCAGAGCAGGTGGCCAGGGCCTGGCCCCACGACACCATTGGCTCCTTGAAAAGGACCCA  
GTTTCCCGCGCGGGAACAGCAGGTGCGACTCATCTACCAAGGGCAGCTGCTAGGCGACGACACCCAGACCCTGGG  
CAGCCTTCACCTCCCTCCCAACTGCGTTCTCCACTGCCACGTGTCCACGAGAGTCGGTCCCCCAAATCCCCCTG  
CCCGCCGGGGTCCGAGCCCGGCCCTCCGGGCTGGAAATCGGCAGCCTGCTGCTGCCCCTGCTGCTCCTGCTGTT  
GCTGCTGCTCTGGTACTGCCAGATCCAGTACCGGCCCTTCTTTCCCCTGACCGCCACTCTGGGCCTGGCCGGCTT  
CACCTGCTCCTCAGTCTCCTGGCCTTTGCCATGTACCGCCCCGTAGTGCCTCCGCGGGCGCTTGGCAGCGTCGCC  
GGCCCCCTCCGGACCTTGCTCCCCGCGCCGCGGCGGGAGCTGCTGCCTGCCAGGCCCGCCTCTCCGGCCTGCCTC  
TTCCCGCCGCCCTGGAGCCCAGCCCTGCGCCGAGAGGACTCCCGGGACTGGCGGAGGCCCCGCCCTGCGACCGC  
CGGGGCTCGGGGCCACCTCCCGGGGCTGCTGACCCCTCAGCCCGCACTGGGAGTGGGCTCCTCGGGGTCGGGCATC  
TGCTGTCGCTGCCTCGGCCCCGGGCAGAGCCGGGCGCCCCGGGGGCCGCTTAGTGTTCTGCCGGAGGACCCA  
GCCGCCTCCAATCCCTGACAGCTCCTTGGGCTGAGTTGGGGACGCCAGGTGCGTGGGAGGCTGGTGAAGGGGAGC  
GGGAGGGGCAGAGGAGTTCCCGGAACCCGTGCAGATTAAAGTAACTGTGAAGTTTTCAAAAAAAAAAAAAA

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**FIGURE 2457**

MTLIEGVGDEVTVLFSVLACLLVLALAWVSTHTAEGGDPLPQPSGTPTPSQPSAAMAATDSMRGEAPGAETPSLR  
HRGQAAQPEPSTGFTATPPAPDSPQEPLVLRLKFLNDSEQVARAWPHDTIGSLKRTQFPGREQQVRLIYQGQLLG  
DDTQTLGSLHLPFNVCVHCHVSTRVGPPNPPCPPGSEPGPSGLEIGSLLLPLLLLLLLLLLWYCQIQYRPFPLTA  
TLGLAGFTLLLSLLAFAMYRP

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**FIGURE 2458**

CCCAGCTCCCTGAAACAACAGTAACCTACCCCTGTGGGTTCATCATCATGCCCCCTCCGACCTGGCCAAGAAGAAGGC  
AGCCAAAAAGAAGGAGGCTGCCAAAGCTCGACAGCGGCCAGAAAAGGACATGAAGAAAATGGAGATGTTGTAC  
AGAACCACAGGTGGCAGAGAAGAATGAGGCCAATGGCAGAGAGACCACAGAAGTAGATTTGCTGACCAAGGAGCT  
AGAGGACTTTGAGATGAAGAAAGCTGCTGCTCGAGCTGTCACTGGCGTCTGGCCTCTCACCCCAACAGTACTGA  
TGTTACATCATCAACCTCTCACTCACCTTTTCATGGTCAAGAGCTGCTCAGTGACACCAAACTGGAATTAACTC  
AGGCCGTCGTTATGGCCTCATTGGTTTAAATGGAATTGGAAAGTCCATGCTGCTCTCTGCTATTGGGAAGCGTGA  
AGTGCCCATCCCTGAGCACATCGACATCTACCATCTGACTCGAGAGATGCCCCCTAGTGACAAGACACCCTTGCA  
TTGTGTGATGGAAGTCGACACAGAGCGGGCCATGCTGGAGAAAGAGGCAGAGCGGCTGGCTCATGAGGATGCGGA  
GTGTGAGAAGCTCATGGAGCTCTACGAGCGCTGGAGGAGCTGGATGCCGACAAGGCAGAGATGAGGGCCTCGCG  
GATCTTGATGGACTGGGTTTCACACCTGCCATGCAGCGCAAGAAGCTAAAAGACTTCAGTGGGGGCTGGAGGAT  
GAGGGTTGCCCTTGCCAGAGCCCTCTTTATTGGGCCCTTCATGCTGCTCCTGGATGAGCCTACCAACCACCTGGA  
CCTAGATGCTTGCGTGTGGTTGGAAGAAGAACTAAAACTTTAAGCGCATCTTGGTCCTCGTCTCCCATTTCCA  
GGATTTTCTGAATGGTGTCTGTACCAATATCATTACATGCACAACAAGAACTGAAGTATTATACGGGTAATTA  
TGATCAGTATGTGAAGACGCGGCTAGAGCTGGAGGAGAACCAGATGAAGAGGTTTCACTGGGAGCAAGATCAGAT  
TGCACACATGAAGAACTACATTGCGAGGTTTGGTCATGGCAGTGCCAAGCTGGCCCCGAGGCCAGAGCAAGGA  
GAAGACGCTACAGAAAATGATGGCATCAGGACTGACAGAGAGGGTCTGTAGCGATAAGACACTGTCATTTTATTT  
CCCACCATGTGGCAAGATCCCTCCACCTGTCATTATGGTGCAAAATGTGAGCTTCAAGTATACAAAAGATGGGCC  
TTGCATCTACAATAATCTAGAATTTGGAATTGACCTTGACACACGAGTGGCTCTGGTAGGGCCCAATGGAGCAGG  
GAAGTCAACTCTTCTGAAGCTGCTAACTGGAGAGCTACTACCCACAGATGGCATGATCCGAAAACACTCTCATGT  
CAAGATAGGGCGTTACCATCAGCATTTACAAGAGCAGCTGGACTTAGATCTCTCACCTTTGGAGTACATGATGAA  
GTGCTACCCAGAGATCAAGGAGAAGGAAGAAATGAGGAAGATCATTGGGCGATACGGTCTCACTGGGAAACAACA  
GGTGAGCCCAATCCGGAACCTGTGACAGCGGGCAGAAGTGCCGAGTGTGTCTGGCCTGGCTGGCCTGGCAGAACCC  
CCACATGCTCTTCTGGATGAACCCACCAATCACCTGGATATCGAGACCATCGACGCCCTGGCAGATGCCATCAA  
TGAGTTTGAGGGTGGTATGATGCTGGTCAGCCATGACTTCAGACTCATTACAGCAGGTTGCACAGGAAATTTGGGT  
CTGTGAGAAGCAGACAATCACCAAGTGGCCTGGAGACATCCTGGCTTACAAGGAGCACCTCAAGTCCAAGCTGGT  
GGATGAGGAGCCCCAGCTCACCAAGAGGACCCACAACGTGTGCACCCTGACATTGGCATCTCTGCCAAGGCCATG  
AGCATCATGAACTCGTTTGTAAACGACGTGTTTGAGCAGCTGGCGTGTGAGGCTGCCCGGCTGGCCAGTACTCG  
GGCCGGACCACCCTGACATCCCGAGAAGTCCAGACGGCTGTGCGTCTGCTGCTGCCTGGGGAGCTGGCCAAGCAC  
GCTGTGCTGAGGGCACCAAGGCTGTACCAAGTACACCAGCTCCAAGTGACCCAGGGCCTGACAAAATAAAGG  
GTGAAGTGTAAAAA

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**FIGURE 2459**

MPSDLAKKKAACKKEAAKARQRPRKGHEENGDVVTEPQVAEKNEANGRETTEVDLLTKELEDFEMKKAARAVTG  
VLASHPNSTDVHIINLSLTFHGQELLSDTKLELNSGRRYGLIGLNGIGKSMLLSAIGKREVP IPEHIDIYHLTRE  
MPPSDKTP LHCVMEVDTERAMLEKEAERLAHEDAECEKLMELYERLEELDADKAEMRASRILHGLGFTPAMQRKK  
LKDFSGGWRMRVALARALFIRPFMLLLDEPTNHLDLDACVWLEEELKTFKRILVLVSHSQDFLNGVCTNIIHMHN  
KKLKYYTGNYDQYVKTRLELEENQMKRFHWEQDQIAHMKNYIARFGHGSAKLARQAQSKEKTLQKMMASGLTERV  
VSDKTL SFYFP CGKIPPPVIMVQNV SFKYTKDGPCIYNNLEFGIDL DTRVALVGPNGAGKSTLLKLLTGELLPT  
DGMIRKHS HVKIGRYHQHLQEQLDLDLSPLEYMMKCYPEIKEKEEMRKIIIGRYGLTGKQQVSPIRNLS DGQKCRV  
CLAWLAWQNPHMLFLDEPTNHLDIETIDALADAIN EFEGGMMLVSHDFRLIQQVAQEIWVCEKQTITKWPGDILA  
YKEHLKSKLVDEEPQLTKRTHNVCTLT LASLPRP

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**FIGURE 2460**

GCGTAATTAAAAGGCGGCGGAAGAAGGTGGGAGGGTCATGACGCAGCGAGTTTCAGTCGTGACTTTTCTGGGGGC  
ATCGCGGCGTCCCCCTTTTTTTTGCCTTTAAAGTAAAACGTCGCCCCGACGCACCCCCCGGTATTTCTGGGGGGCG  
GAGGCGGCGGGCCACGGCGCGAAGAGGGGCGGTGCTGACGCCGGCCGGTCACGTGGGCGTGTTGTGGGGGGGAGG  
GGCGCCGCCGCGCGGTTCGGTTCCGGGCGGTTGGGAGCGCGCGAGCTAGCGAGCGAGAGGCAGCCGCGCCCGCCGC  
CGCCCCCTGCTCTGTATGCCGCTCTCTCCCGGCGCGGCCGCCGCGCCGATCACAGCAGCAGGAGCCACCGCCGCCGCG  
GTTGATGTGGTTGGGCGGGGCTGAGGAGGCCGCCAAGATGCCCGCAGTCCAAGTCCCGGAAGATCGCGATCCTGG  
GCTACCGGTCTGTGGGGAAATCCTCATTGACGATTCAATTTGTTGAAGGCCAATTTGTGGACTCCTACGATCCAA  
CCATAGAAAACACTTTTACAAAGTTGATCACAGTAAATGGACAAGAATATCATCTTCAACTTGTAGACACAGCCG  
GGCAAGATGAATATTCTATCTTTCCTCAGACATACTCCATAGATATTAATGGCTATATTCTTGTGTATTCTGTTA  
CATCAATCAAAAGTTTTGAAGTGATTAAAGTTATCCATGGCAAATTGTTGGATATGGTGGGGAAAGTACAAATAC  
CTATTATGTTGGTTGGGAATAAGAAAGACCTGCATATGGAAAGGGTGATCAGTTATGAAGAAGGGAAAGCTTTGG  
CAGAATCTTGGAATGCAGCTTTTTTGAATCTTCTGCTAAAGAAAATCAGACTGCTGTGGATGTTTTTCGAAGGA  
TAATTTTGGAGGCAGAAAAAATGGACGGGGCAGCTTCACAAGGCAAGTCTTCATGCTCGGTGATGTGATTCTGCT  
GCAAAGCCTGAGGACACTGGGAATATATTCTACCTGAAGAAGCAAAGTCCCGTTCTCCTTGAAGATAAACTATG  
CTTCTTTTTTCTTCTGTAAACCTGAAAGATATCATTGTTGGGTCAGAGCTCCCTCCCTTCAGATTATGTTAACTCT  
GAGTCTGTCAAATGAGTTCACCTCCATTTTCAAATTTTAAGCAATCATATTTTCAATTTATATATTGTATTCT  
TAATATTATGACCAAGAATTTTATCGGCATTAAATTTTTCAGTGTAGTTTGTGTTTAAATAATGTAATCATCAA  
AATGATGCATATTGTTACACTACTATTAAGTAGGCTTCAGTATATCAGTGTTTATTTTATTGTGTAAATGTATA  
CTTGTAATAAAATAGCTGCAAACCTCAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2461**

MPQSKSRKIAILGYRSVGKSSLTIQFVEGQFVDSYDPTIENTFTKLITVNGQEYHLQLVDTAGQDEYSIFPQTYS  
IDINGYILVYSVTSIKSFEVIKVIHGKLLDMVGKVQIPIMLVGNKKDLHMERVISYEEGKALAESWNAAFLESSA  
KENQTAVDVFRRRIILEAEKMDGAASQGKSSCSVM

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**FIGURE 2462A**

GATTTACTTGGAGAAGATTTGCTATCTGGCAAAAAGAATCAGTTCGGATTTGTCAGATGAAGAGCTAAATGATGAT  
CTTTTGCAGAGTGATAATGAAGATGAAGAAAATTTTCAGTTCTCAGGGTGTTACAATTAGTCTGAATGCTACATCT  
GGCATGGTTACATCATTTGAACTCTCTGACAACACTAACGACCAATCTGGAGAACAGGAATCTGAGTATGAACAA  
GAACAAGGAGAGGATGAACTGGTTTATCACAATCTGATGGATCAGAATTGTATACTCAAGAGTACCCAGAAGAA  
GGACAGTATGAAGGCCACGAAGCTGAGTTGACAGAAGACCAATAGAATATGTGGAAGAGCCAGAGGAGGAGCAG  
CTTTACACTGATGAAGTGTTAGACATCGAGATCAATGAACCTTTAGATGAATTTACAGGAGGTATGGAACATTG  
GAACTTCAAAGGACATCAAAGAAGAATCAGATGAAGAAGAAGAAGATGATGAAGAATCTGGACGATTACGTTTC  
AAAAGTGAAGGAAAGAAGGAACAATTATTAGGCTCTCAGATGTAAGTACAGAGAGAAGGAACATTCCAGAACT  
TTGGAGCTTTTCAGCAGAGGCCAAGGCAGCATTGCTTGAATTTGAAGAAAGGGAGCGACAGCATAAACAAGGACGC  
TACAGCTCCAGGCGGGGAGGACGGCGAGGAGGTCCGCTGATGTGTCTGTTGGTGTGGGGGACCAGAGGAGAGAGC  
ACCGAGAGGGGAGGATGAAGGACCACAGACCTGCGCTGCTTCTACACAGCCTCCTGTCTGTGATACTTCCAGAG  
GAGGAATTAATGAGCGACCTGATGCCCTAAGATGACATAAGCTGTTGGACCTTGCTACCTAAAGCCTCTAGAGAG  
CCCCAGGCTCCCCCTCCACCGCTCCGCCGCTCAGCAGCAGCCGATCAGAAGCCTGTTCCAGCCGAGCCGCTG  
CAGCCGCTGCTTCCGGTGCAGCACCCGACACCCCATCCCCGCTCAGGGAATGCACATGCCTCCCCAGCTAGAG  
ACCCCAAGGATGATGATGACCCCGCCACCCGTGACTCCACAGCAGCCCAAGAACATACACATCAACCCGCACTTC  
AAAGGGACGGTGGTCACGCCTGTTCAAGTGCCCTTGCTACCAGTTCCGAGCCAGCCGAGACCTGCCGTGGGACCC  
CAGAGATTCCCAGGCCCTCCAGAATTTCCACAGCATAACCTGGACCTGTTCCCAACAGTTTCAGCCAGCCCCCA  
CGACTCCCTCTCCAGGACAGTGGAGAGCCCCACCCCGCTCAGGATCGAGACCCTTTCTTCTTAGGAGTTTCA  
GGTGAACCAAGATTCCCAGCCATCTTTTTCTGGAACAGCGAAGTCCCCCTCCACCACCACCGCCTCCTACCCTT  
CTTAACAGTAGCCATCTGTTCTACTCAGAGTCTCTACCATTCACTCAGCCAGGACCAGCATTTAATCAGCAA  
GGACAGCAGCCAGTGTTCCTAAGAGAGCGGCCCGTACGACCGCTTGACGCTCCAGGTCCGGTGGGGATTCTG  
CACTTTAGCCAGCCTGGGTCCGCAACCACACGCGCCCTTCATTCTCTAGACAGCCGTTCTGTCAGGCCAGGA  
CAGCCGTTTCTGCCACACACACAGCCCAACCTGCAGGTAATGCATCCTGAGTGAACCTCCAGGGAAAAAATG  
TGAGCTTCAAGGCTTTGTGTTCCATAAAGTTTTCAGATTTTTATTGAGCCTACTAATTTGTGGTTATTTAAAGA  
ATAGAGTATTAGTCTCAAATGTACTGTTTGTAAAGACAACTTTTTCAACAATGTTACTTATCTCAATACAAGA  
AAAAAATGGGAAAATGTCATTTTTTGGGAATTGAAAAATGCTACTATTATAATTGTTTAAAGGGTATACTACTA  
ATAAAATTAGGACATGTTTTGATAATACATTTGCTCATCTGTATAAAATTTTCATGAGAGGTTTACCAGTGGAAT  
ACTTTGTCAAATTATATTCCTGCAGTAGACAGTTTTGAAAAGAGTCTTTGCATGGAGGGAAGAAGATGTTGCTGT  
TCACTGGTTATTTGAAGGCCTTGAGTGCCCTCTGCCGACCGGCTTCTGCTTCATGGGTTTTACTGGTTATTTGA  
AGGCCTTGAGTGCCCTCTGCCCATCGGCTTCTGCTTCATGGGTTGACATGCGTCTGTAACATCTTTCTTACCAAG  
TGTATATTTCTTCTTGTATTGTAGGGTTACTATTAAATACATAGCGATGGTAAACTTGAATCAACTATTTAAAA  
ATACGTGGAATACGTATCTAAGCCAAAAACGGAAAATGAATATTATCTAGGGTGTAAAGGAAGATAAAATGTTT  
TTAAGAATTTTTCTTTTTATTAAAAAATGCAATTAATACATCCCCATTGCAGAAATTTCAAGTATATATAAGA  
AAGGAAATTAATACTCTCGTTACCTAGAAACAATTCAGGAGCTTTTTTTTTTGTCTTTTTTAAATGCACATCT  
TCTCGCCACCTGCTTTTTCCCTCCAGTGTACATATCATTGATCTTTTCATGTCAGCGAGTTGGTTTTGATGCC  
ATCGTTTGAGAGTGCTGTATGCGGTTCCCTTTTCATGCTGTCTGTGTGGTTGCATGTGTGTATACTGGTTTCAGTA  
CTTTAGTATCATAGTGCTACAGGGAACATGCTTTAGAGTTATGAGTTTGTCTGCATACCTAGTTTTCCTTAGGAC  
AATTCAATCCTAGAAATTACTGGATTAAATATAAAATTTAAGGTAATAGCTTCTGGCTTATTACTGCATTTTAGAT  
AGTATTACCTTCATCAGCAAGTCTAAATGAAGTTTGGTATCGCTGAAAGTTCCTTTCTTGTGTTGAGGTTTTT  
TAGGAAATGATTGAAGTGATTATGCCCCGGTGAACCATTTATGAAGTGTGTTTCTCTTTCTTGGAAATGGAAG  
GGGCCGTTGCATCCTCCATTGCCCCCTCCGCATCAGCCTCAGCCTCAGCAACCTCAGCAACAGCCCCCGCCACAG  
CACCAGCCTCCGCACCAGCCCCCGCACCAGCCCCCGCCCCAGCACCAGCCCCACCCAGCACCCACAGCAC  
CCGCCGAGCACCAGCACCACCACCACCACCACCACCTGTCCGTCCCGCCCCCTCCTTTGATGCCGATGTCTCAG  
CCACAGTTCGGGCTCACGTACAGACCGCTCAGCCTCAGGCCAGCAGCAGCCGGATGCAGTGCCCCCAGCGCCAG  
GGGCTCCGGCATAATACTTCTCAGAATGTAAGCAAGCGGCCCATGCAGCAAATGCAGCCCACTGCGCCAAGG  
AACAGCAATTTGCGTGAATTACCCATAGCGCCGTACACGTGATAGAAATGAGCAGCAGCCGCTGCTCTGCCACG  
CCCTCAGCACAAGTGAAACCTATCGTCAGCGCGTCACCACCCTCGCGGGCGTGGCGGGTTCCAGAAGCTCACAG  
GGAAAGACGGAAGTGAAAGTCAAGCCAGCTAGCCCTGTGGCTCAACCTAAAGAAGAGGCAAAAACAGAAACAGAG

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**FIGURE 2462B**

TTTCCTGATGAAGATGAGGAAACAAGGTTATATCGCTTAAAGATAGAAGAACAGAAACGCCTAAGAGAAGAAATC  
CTGAAACAGAAGGAGTTACGGCGGCAGCAGCAGGCTGGTGCCAGGAAGAAGGAGCTGCTGGAGAGACTCGCGCAG  
CAACAGCAGCAGCTGTACGCTCCCCACCCCCAGCAGAGCAGGAAGAGCAGGCACTGTCACCATCACCCACCAAC  
GGTAACCCACTGTTGCCCTTTCCAGGTGCACAGGTCAGACAAAATGTGAAGAACAGACTTCTTGTTAAAAACCAG  
GATGTCAGTATTTCAAACGTTTCAGCCAAAAACATCCAATTTTGTACCATCCAGTGCCAACATGCAGTATCAAGGA  
CAACAGATGAAAGCACTGAAACATTTGAGACAGACCAGAACAGTTCCTCAAAGTCAGACTCAGCCGCTGCATAAA  
GTGCTCCCGATCAAACCTGCAGATGTGGAGGAGCCAGCTGTCCCCCAGACTCCTCGAGTGGCGTCCATCCAGGGC  
CGGCCCCAGGACACAAAGCCTGGCGTGAAAAGGACTGTACGCACAGGACAAACAGTGGTGGTGGAGACGGGCCC  
CACATCAGCTCCAAGGTCAGGGTGATTAAGCTGTCAGGTGGGGTAAGTTGACAAGTTTTATGAGAGCCTCTTTGA  
GTCTGTGTATCACATAGAATGTCTCATTTCAGAGAATGTTTTTGAAGAAAGAATTAAAAGTTACCTCTGTTAT  
AGTCTTGTAaaaaaaaaaaaaaaaaaaaaaaaaaaaaa





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**FIGURE 2464**

GCCGGTGTCTGGTTCGCGGTACCTGTTCCAACACGGCTCGCGGGCCCGTGCCGGCTCCGGTCCCCGGCGCGGGCTG  
TCCGAGCCCCTGCGGCGGGCGGACGATGGTGTGGCGGAGCACGCGGACGCGGGCGGCGCGGGCGGGCATGAAG  
GAGGATGGAAGGGCAGGACGAGGTGTCGGCGCGGGAGCAGCACTTCCACAGCCAAGTGCGGGAGTCCACGATATG  
TTTCCTTCTTTTTGCCATTCTCTACGTTGTTTCTTACTTCATCATCACAAGATACAAGAGAAAATCAGATGAACA  
AGAAGATGAAGATGCCATCGTCAACAGGATTTCGTTGTTTTTGAGCACGTTCACTCTCGCAGTGTGAGCTGGGGC  
TGTTTTGCTTTTACCCTTCTCAATCATCAGCAATGAAATCCTGCTTTCTTTTCTCAGAACTACTATATTCAGTG  
GCTAAATGGCTCCCTGATTTCATGGTTTGTGGAATCTTGCTTCCCTTTTTTCCAACCTTTGTTTATTGTATTGAT  
GCCCTTTGCCTTTTTCTTTCTGGAATCAGAAGGCTTTGCTGGCCTGAAAAAGGGAATCCGAGCCCGCATTTTAGA  
GACTTTGGTCATGCTTCTTCTTCTTGGCTTACTCATTCTTGGGATAGTGTGGGTAGCTTCAGCACTCATTGACAA  
CGATGCCGCAAGCATGGAATCTTTATATGATCTCTGGGAGTTCTATCTACCCTATTTATATTCCTGTATATCATT  
GATGGGATGTTTGTACTTCTCTTGTGTACACCAGTTGGCCTTTCTCGTATGTTTACAGTGATGGGTGAGTTGCT  
AGTGAAGCCAACAATTCTTGAAGACCTGGATGAACAAATTTATATCATTACCTTAGAGGAAGAAGCACTCCAGAG  
ACGACTAAATGGGCTGTCTTCATCGGTGGAATACAACATAATGGAGTTGGAACAAGAAGCTTGAAATGTAAAGAC  
TCTTAAGACAAAATTAGAGAGGCGAAAAAAGGCCTCAGCATGGGAAAGAAATTTGGTGTATCCCGCTGTTATGGT  
TCTCCTTCTTATTGAGACATCCATCTCGGTCCCTCTTGGTGGCTTGTAAATATTCTTTGCCTATTGGTTGATGAAAC  
AGCAATGCCAAAAGGAACAAGGGGGCCTGGAATAGGAAATGCCTCTCTTTCTACGTTTGGTTTTGTGGGAGCTGC  
GCTTGAAATCATTTTGATTTTCTATCTTATGGTGTCTCTGTTGTGCGGCTTCTATAGCCTTCGATTTTTTGGAAA  
CTTTACTCCCAAGAAAGATGACACAACATGACAAAGATCATTGGAAATTGTGTGTCCATCTTGGTTTTGAGCTC  
TGCTCTGCGCTGTGATGTGAGAACACTGGGAATCACTAGATTGATCTACTTGGCGACTTTGGAAGGTTTAATTG  
GCTGGGAAATTTCTATATTGTATTATCCTACAATTTGCTTTTGTCTATTGTGACAACATTGTGTCTGGTCCGAAA  
ATTCACCTCTGCAGTTCGAGAAGAACTTTTCAAGGCCCTAGGGCTTCATAAAGCTTCACTTACCAAATACTTCAAG  
GGATTGAGAAACAGCCAAGCCTTCTGTAAATGGGCATCAGAAAGCACTGTGAGACGCACAGACGGCGTCTTCTGC  
CACCAGAGACCCGAGAACTCCAGATTCACGACATTCTGTCCCATGTAGAAGCATTTCATTCAACCGTGGCCC  
CTCTTCAGAACCTAGACCTATCAGTGCCATTTTTTTTTTCTAATCTACGAAGAACTTGGCTATGGCTGATCTTTT  
TTAAATTTAACTTTCTGATGGACCCTGTAGTTTCCAGTTAAGTGCAGATTCTTACAGACATATAGAACAGCGCA  
TTCTTCTGTAGACATTTGCTCATGTTGGTAAATACAATCACCATATGAAAAAATTGTTTTACCTGATATGAAA  
ATGTTAGAAAAGGCAAACTCCGGGACTTCTAAAGATTTACTTAAATCCCATTATGTACTTTATTTCAGAAATGTAGA  
AGCTGACTTGAAAGGCATCCTTGGTACTAAGTGAAGCTTATTGAGAAAATGCATTTTTTCAATGCAATGGCAACT  
GCTTGTAGATATCATTTTTGTCAGTGTATGTTGGAGCTGTAATGGTTGCAATTATGTTTCTTATTTCTTAAAAGC  
AAAAAGCGTAGTTTCTGATTTATGTTATAGAATGATACTGATTAGACTTTGAGCCAAGGGGAAAATACTAAATTC  
TTTTAAACCTGGAGCCTTAGAGAGCCACAGGAATATCTTCTGTTGTACAGTCTAATAAGCTGTGGTAGGAAGTAT  
CATGTAATCAGTTTAAATGACAGTTTATGTATATATATAATTCAGTATTCCTCTGATAACATAGTTGCCAGTG  
TTTAATACACTTGTAACCTGGATTTTTACCTTATAGGCTATATGTATACTCAGTTTTTTAAAGCATTTTTTTCAG  
AGATCACTTAATCCCCATGCTTCTGCAATGCATATAAAAACTATAAATGCCGAGTGGTAGAACTCCTCTTTCT  
TCATAGTCTCAGGCTTTGGTTACATTTGCATATGCCATTTGAAGCCTCCAGCTTTTACCAGTTTAACATCCAAA  
GTTACAGCATCAGCATTCATGGTGTAAAGACAGTTTTGAGTATAACACGATCTGATAATCATTAGTTATTAA  
ATTGTAAATAATTATTGGGATGGTTTCTTGGCTTTAAGTCCACTGAATAAAAACTATGAAATTGCAAAAAAAA  
AAAAAA

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**FIGURE 2465**

MEGQDEVSAREQHFHSQVRESTICFLLFAILYVVSFYIITRYKRKSDEQEDEDIVNRISLFLSTFTLAVSAGAV  
LLLPFSIISNEILLSFPQNYIIQWLNGSLIHGLWNLASLFSNLCLFVLMPPFAFFFFLESEGFAGLKKGIRARILET  
LVMLLLLALLILGIVWVASALIDNDAASMESLYDLWEFYLPYLYSCISLMGCLLLLLLCTPVGLSRMFTVMGQLLV  
KPTILEDLDEQIYIITLEEEALQRRNLGLSSSVEYNIMELEQELENVKTCLKLERRKKASAWERNLVYPVMVL  
LLIETSISVLLVACNILCLLVDETAMPKGTRGPGIGNASLSTFGFVGAALIEILIFYLMVSSVVGFYSLRFFGNF  
TPKKDDTTMTKIIGNCVSILVLSSALPVMSRTLGITRFDLLGDFGRFNWLGNFYIVLSYNLLFAIVTTLCLVRKF  
TSAVREELFKALGLHKLHLPNTSRDSETAKPSVNGHQKAL

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**FIGURE 2466**

TCITTCGTAACCGTAGCTTGAGGCACATTTCTAAATATGCAGCATGGAACGCTTGGCGGTTCTGAACGCGCAT  
CTCGTGCTGCTCCTGTAGGGCGGTTAGGACGCGCTCCTCTGGCGAGGAAGGTGGCAGCCTCCACTGTGCACGGGT  
CACAGGCGAGTGTGGTGTGGTGTGGTGTGGGTGGGGTGTGGACTGGATCTGCAGGCTTGTCCCTCTCTCGTGGA  
GAGCTGTGCGGGTCCAGGCAGTGCTCAGTGGTGAGAGCCACAGCACATTTGAAAGTCCACATGTGTTTGCCCCAC  
TGTGGTCCAGGACATGTGTGAGCCACACTCAGTGGACTTGCACCTGTGACATGTTGGTCAGCGTGGCGGCCGTCA  
GCTGGGTGTGGAATGCATCTGATTGGAGCCTGGCACCCGGCCTACCATGATTGTGATTCTCTGGGGCGAGTCCTG  
AGTGTGGGCAGGGCCTCAGGCCCCCAAGAGGGCTGTGAGCAGGCACCTTCCTGTGAGGCACGATGCCACCATGTG  
AAGTTGTGTGGGTCTTTGGAGAGTTCTGGCAGGTTGAGGGCCTGTGCGTGTGGGACCCAGGCCTGCCCTGCCTGC  
TGCCGGCCATGTTCCCTCTGCCCAGTCATGTTGACAATTGTGGCCAAATTCAACATCGGGCCTGTTTCCTGCACC  
CACGTTGGCACACACTGAGTTCAAGACAGTTTCTGCAGAAATGAATCCAGAGGTGTTTATTTCTGGCACGTTGGA  
TCAGACGTTTCAGAGGGTGGGCGTCTTTCTCCATGCATTCAGCTGGATCAGTCAGTGTGAGCCATTGACTTTAGC  
AACAGGGAATGAAAGACTTTCTCAATAAGAAATGGGACTTTCTCACGCTGGATGGCACAGAGCTGGCAAACAT  
GAGGCCAGTCCACACCAAGGCTTTGCCTGCAGAAAGGCTGCACTGTGGCCAGCGGGGAAGCGGAGGAGACACCT  
GTGGACACCCTCCCCACAGGTGGGCACACCTTTGCGCAGGCCCAGTGTGCGTTCTGAAGGAGAGCCAGGGTGGG  
GTTCCGGGACTGAGGTGCAGCCGTGTCCAGGGTGGGCTTCTAGCTCTGCCGCTGGGCGGAAGTGGGGTAGGTCCC  
AGGGTGGGGTTCCAGGACTGAGGTGCAGCCGTGCCAGGGTGGGCTTCTAGCTCTGCCGCTGGGCGGAAGTGGGGTAGGTCCC  
TAGTCCCAGGGTGGGCTTTTAGCTCTGCCGCTGGGCGGAAGTCCGGTAGGTGGGAGTCTCACTTCTCTGCAGGG  
TGGTGAAGCTCTCTGGGTAGTGTGAGCAGTTCTCAACGTGCACCTTGGAAAGCGCCGTTTTGAGGTTTAGCTGT  
GGCCAAGATAGATGACTTCATTTTGTGCTTTTTGTTCTTAACATGGGGAGATATTTAGAAAACATGTTTGGCTC  
TTGTGGGGAAGCAGTGTGTTCCGTACAGTGTTTACAAGCCGTGTTTCCTTAGGATTGAAAGAAGGTGGCAAG  
AGGAAGAAGCAGAAGCAGAGAGAGGAGTGAAGAAGAAGAGTCGACCAAAGGCAATCACTAGACCGGACTTGAG  
GCACGCGGTGCACCCCCAGACGCTGGCGCTCCACCGTGCTCGGCATGCGGTGCTGCACACGCGCTAGGTAGCAGC  
GTCGGTCAGGACTGTCTCGAGGCCACACTCGCTCGGCAGGATTATGCGATCACGGATCAGTCAGAGCAGGGTCAG  
GAGACGGGGCTGACGGCACGGGTGGCGGGACAGACGTTTGGGACTTGGCCGCGACTCTCTGCTTCTCTCCAGCT  
CTCAATCTGCTGCATTTTCTCTAGTGCTTCCGGATCCTCTTCATTCTTTTCGGCTACTCAACCACTCCGCTATGC  
TGCTGGAATATTTCTGGCTTTAGAAGTACAGGAGGGCGCAGATGGCTAACTGAGTAACATTTCATGAAATGAGGCT  
TTCTGTGGCGGCGTAGTGTGTTGGAATTAGAAGGTAATTCAGTAGAGTGTAAGTATAGAGAATATTGCAAGTGACAC  
ATTGAATCCTGCCCCTCAGGGCACCTTTTCTCAGAGCAATCCGGCCACACGAATAGAAGGCTGTGCTGAATCAC  
ATCAGATGTAAATCATTCTTCTGTTTACTCTTTTAAATTTTTCATCCTTTGCAGGTAGTGCAAATTCAACTTCAA  
ATATGGTGTAGGTTTTGCTAGATTCCATATTTTTTTCTTGGATTTTGTCTAATTATTTTTCAGAAAAATTTTTG  
CTCAGTGGCACTCTCCCTAGTGTCCATGGGTTAGGGCCATGCTGGGGAAAACGGGCGGTATTTACACACGCGCA  
AAACACCCAGAGACGGCACAAAGGAGGTTGAACTCATGTTTCAGTTCGCGAACATTGACTCCTTACGAAAGTCACT  
TCATTCTAACTAGATGCGCCCACTTCCGGTCATTATTTTCGTTTGCATGATGATTGCTTCTTCACGTTTTGTTTT  
TATTGAGCACGGAGTAGAATTCAGGGCTGCCTTGACTTCTTCCCTGCATGCTCCCTCCAGTGACTTTCTTCC  
CTTTTCATGAGGATCTGCCGTTTCATGTTGCTTTCTCCTTTGTCTCTTGGACTTGAGGGCATTGTGAAAAGCTT  
TGCTGTGATTTAAAAATGCCAGCAATTTTAACTAGCAGTGTTGAAGCTGGGAATTTTTTGGCGCAATCCATGTA  
GCAGTGACCCAGGCTTGGGAGCCAGAAACAAGTGTGACCTGGGATTTTATTTAACACAAGTGTGCCAAAGAGTT  
GGCTTTGTTTTATTGTGTTTTGGCGGGGAGAGGAGTGATTTGATGCTTTCTGTGGACAATGTAACCCTAAACAC  
ATCATGTATTTTAAATGCCACCTACATAAATAAAACATAAGCATATTGAATAC

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**FIGURE 2467**

CTAAGACAGGTGCAGACGTAATGTCGGCTTTGGCGTATCCATCAAGCTTTATATTGCTTTGATTATGATTTGGAGG  
AAAGTGGAGAAATTAAAGATATGTTACTTGAGTGCTTCATAAATATTAATTATATCAAGAAAGAGGGGAAGAA  
GATTTCTTAGTTGTCTCTTCAACTGGAATATCAACTTCATCAAAATGATCCACGGGACCATTAAAAACCAGTTAC  
AGGGATTACAAAAGTCTTTGATGGTATACATTGCAGAAATTTATTTTCAGAGCTTGGAAGGCTTCAGGGAAAA  
TACTGGAGGCGATTGAAAATGATTGCATCCAGGACTTCATGTTTCACGGGATACACCTTCCGAGGAGGTCTCCAG  
TGCATTCCAAAGTGGGGAGGTTCTGAGTTACTTTACCATCAAAAGAAAGTTCCGGCAGGGAGTGGAAGAGATGC  
TTTATAGATTATATAAGCCCATCCTTTGGAGAGGATTAAAGGCCAGAACTCTGAAGTTTCGATCAAATGCTGCAT  
TGTTGTTTGTGTTGAAGCAATTCCTATTAGGGATCCAAACCTTCATGCTATTGAAATGGATAGTGAAATCCAGAAAC  
AGTTTGAAGAGCTCTATAGCCTTTTAGAAGATCCTTACCCGATGGTCCGTTCCACAGGGATCCTTGGTGTGTTGTA  
AAATAACTTCTAAGTACTGGGAAATGATGCCCCGACCATTCTTATTGACCTCCTGAAGAAGGTGACTGGGGAAC  
TGGCATTGACACGAGCTCAGCTGATGTTCTGTTGTTCTGTCTTTAAGTGTCTGCCAATGATTTTGGACAACAAAC  
TGAGCCACCCATTGTTAGAGCAGCTCCTTCCAGCTCTCAGATACAGTCTCCACGACAATTCGGAGAAAGTGAGGG  
TAGCTTTTGTGGACATGCTGTTGAAGATCAAAGCTGTGAGGGCTGCTAAGTTTGGAAAAATATGTCCCATGGAGC  
ACATTCTGGTTCTGCTGGAAGTGAATTCGACCTGTGTCTCGGCGCCTGGTGAGCCTCATCTTTAATTCCTTCC  
TGCCTGTGAATCAGCCGGAGGAGTCTGGTGCGAGCGCTGTGTACCCCTGGTGAGATGAACCACGCCGCTGCCA  
GGAGGTTCTATCAGTACGCCCCACGAACACACCGCTGCACCAACATAGCAAAGCTGATTCACGTTATTCGTCTATT  
GCTTAAATGCCTGTATCCAGAGGGCAGTGAGAGAGCCTCCAGAGGACGAGGAGGAAGAGGACGGAAGGGAGAAGG  
AGAATGTGACTGTTCTGGAACAAACACTGTGAGTAAACGATGTTGCATGCATGGCAGGTTTACTAGAAATCATTG  
TGATTCTCTGGAAGATATTGACAGAAGTATGGAATAATAAAGAGGCCAACTTTACACGATTAACAAGTTTG  
CCTCTGTGCTTCCAGAGTATCTGAAAGTATTTAAGGATGATCGCTGCAAGATCCCTTTATTTCATGCTAATGTCCT  
TTATGCCGGCCTCTGCTGTCCCCCATTCAGCTGTGGTGTGATTTCCACGCTGAGAAGCCGGGAGGAGGGCGCTG  
TGGACAAGAGCTACTGCACTTTGTTGGATTGCTCTGCTCCTGGGGGCAAGTGGGGCACATTCTGGAGCTTGTG  
ACAACCTGGCTGCCCACAGAGCATGCCAGGCCAAGAGCAACACAGCTTCTAAAGGTAGGGTGAGATCCATGACA  
CACGCCAGTCAAACCTGAATTGGCATTGGTCTACATTGAGTATCTGCTGACTCATCAAAGAACCAGGAGTGCT  
TGCTCTCTGCTCCTCGGAAGAACTTAACCATCTTTTGAAAGCCCTTGAAACGTCAAAGGCAGATCTGGAGTCAC  
TTCTGCAGACACCGGGTGGGAAGCCTCGTGGCTTCAGTGAAGCAGCTGCCCCGAGCCTTTGGTCTCCACTGTC  
GCCTGAGCATCCATCTTCAGCACAACTTCTGCTCAGAAGGAAAGGTGTATTTGTCCATGTTGGAAGACACTGGCT  
TTTGGTTAGAAAGCAAAATTTTATCTTTTATTCAAGATCAAGAAGAAGACTACCTGAAGCTTCATAGGGTCATTT  
ATCAGCAAATTATCCAGACCTACCTGACTGTGTGTAAAGATGTTGTTATGGTAGGCCTTGGTGACCATCAGTTTC  
AGATGCAACTCTTACAGCGGAGTCTTGAATCATGCAAACAGTGAAGGGATTTTTTTTATGTTTCATTACTTCTTG  
ACATTCTGAAAGAGATAACTGGAAGTTCCTTGATTCAGAAAACAGATTGAGATGAAGAAGTTGCAATGCTGTTGG  
ACACAGTCCAGAAAGTATTTTCAAGAAATGTTGGAATGTATTGCACGGAGCTTCAGGAAGCAGCCGGAAGAAGGCC  
TGCGGCTGCTTTATTCTGTTTCAAGGCTCTTTCATGAGTTCATTACTGCTGTTTCACTCTCGGCACACAGACACCC  
CTGTGCACCGGGGTGTACTTTCTACTCTGATCGCTGGGCTGTGGTTGAGATAAGTACCAGCTACGGAAGGTTT  
CTGACGTAGAAGAGCTTACCCCTCCAGAGCATCTTCTGATCTTCCACCATTTTCAAGGTGTTTAAATAGGAATAA  
TAATAAAGTCTTCAATGTGGTCAGGTCATTTTTTGGATGAATTAAAGGCATGTGTGGCTTCTAATGATATTGAAG  
GCATTGTGTGCCTCACGGCTGCTGTGCATATTATCCTGGTTATTAATGCAGGTAAACATAAAAGCTCAAAAGTGA  
GGGAGGTTGCAGCCACTGTTTACAGAAAACATAAGACATTGAGGAAATTAATTTGGAAGAGGATAGCATTGAAA  
GATTTCTCTATGAATCATCATCAAGAACTCTGGGAGAACTTTTGAATTCATAACCAAGCCAACATCTCCAGACAT  
GTAAAAATAGGGAAAAGTGATTCAAATTGAAATGCCTGTGTATTTTCTATTGTTTTTAAATGTTAATAACCCATA  
TAATAGGGAAAGGGTGGGATTTTTTGTGGGAATGTGGGAAGGTGGGGTTATGGAGGAGATAACTCAAACTTC  
TTCAATTTTGCCTAGTGCCTGCGTAAATAATATATTTAATATAAAGGACTCCAGGTATAAATGGTGTAGAAATCC  
ATGATTCCAAGAAAAACACTTTTCTAGCAAACCTGGTTGTTTTTAAATGACTTTTATATATGTAATATTGCTT  
GGAACTATGAGTAATAAAGCAATGACAACAAAAAAAAAAAAAAAAA

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**FIGURE 2468**

MLLECFININYIKKEEGRRFLSCLFNWNINFIKMIHGTTIKNQLQGLQKSLMVYIAEITYFRAWKKASGKILEAIEN  
DCIQDFMFHGIHLPRRSPVHSHKVRVLSYFHHQKKVRQGEEMLYRLYKPIILWRGLKARNSEVRSNAALLFVEAF  
PIRDPNLHAIEMDSEIQKQFEELYSLLEDPYPMVRSTGILGVCKITSKYWEMMPPTILIDLLKKVTGELAFDTSS  
ADVRCVSVFKCLPMILDNKLSHPLLEQLLPALRYSLHDNSEKVRVAFVDMLLKIKAVRAAKFWKICPMEHILVRLE  
TDSRPVSRRLVSLIFNSFLPVNQPEEVWCERCVTLVQMNHAAARRFYQYAHEHTACTNIAKLIHVIRHCLNACIQ  
RAVREPPEDDEEEDGREKENVTVLDKTLVNDVACMAGLLEIIIVILWKSIDRSMENNKEAKLYTINKFASVLPEY  
LKVFKDDRCKIPLFMLMSFMPASAVPPFSCGVISTLRSREEGAVDKSYCTLLDCLCSWGQVGHILELVDNWLPT  
HAQAKSNTASKGRVQIHDTRPVKPELALVYIEYLLTHPKNRECLLSAPRKKLNHLLKALETSKADLESLLQTPGG  
KPRGFSEAAAPRAFGHLHCRSLIHLQHKFCSEGVYLSMLEDTGFWLESKILSFIQDQEEDYLKLRVYIQQIIQT  
YLTVC KD VVMVGLGDHGFQMQLLQRS LGIMQTVKGFFYVSLLLDILKEITGSSLIQKTDSD EEVAMLLDTVQKVF  
QKMLECIARSFRKQPEEGLRLLYSVQRPLHEFITAVQSRHTDTPVHRGVLSTLIAGPVVEISHQLRKVSDVEELT  
PPEHLSDLPPFSRCLIGIIKSSNVRSFLDELKACVASNDIEGIVCLTAAVHIILVINAGKHKSSKRVREVAATV  
HRKLKTFMEITLEEDSIERFLYESSSRTLGE LLNS

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**FIGURE 2469**

CGGGACGGAGGGGGCGGCCCCCGCGCTCGGGGCGCTCGGCTACAGCTGCGGGGCCCCGAGGTCTCCGCGCACTCGC  
TCCCGGCCCATGCTGGAGGCGGCGGAACCGCGGGGACCTAGGACGGAGGCGGCGGGCGCTGGGCGGCCCCCGGCA  
CGCTGAGCTCGGGATGCGGACGCTGCTGCCTCCCGCGCTGCTGACCTGCTGGCTGCTCGCCCCCGTGAACAGCAT  
TCACCCAGAATGCCGATTTTCATCTGGAAATACAGGAGGAAGAAACAAAATGTGCAGAGCTTCTGAGGTCTCAAAC  
AGAAAAACACAAAGCCTGCAGTGGCGTCTGGGACAACATCACGTGCTGGCGGCCTGCCAATGTGGGAGAGACCGT  
CACGGTGGCCTGCCCAAAAGTCTTCAGCAATTTTTACAGCAAAGCAGGAAACATAAGCAAAAACCTGTACGAGTGA  
CGGATGGTCAGAGACGTTCCAGATTTTCGTGATGCCCTGTGGCTACAGCGACCCGGAGGATGAGAGCAAGATCAC  
GTTTTATATTCTGGTGAAGGCCATTTATACACTGGGCTACAGTGTCTCTCTGATGTCTCTTGCAACAGGAAGCAT  
AATTCTGTGCCTCTTCAGGAAGCTGCACTGCACCAGGAATTACATCCACCTGAACCTGTTCTCTGTCTTCATCCT  
GAGAGCCATCTCAGTGTGGTCAAGGACGACGTTCTCTACTCCAGCTCTGGCACGTTGCACTGCCCTGACCAGCC  
ATCCTCCTGGGTGGGCTGCAAGCTGAGCCTGGTCTTCCTGCAGTACTGCATCATGGCCAACCTTCTTCTGGCTGCT  
GGTGGAGGGGCTCTACCTCCACACCCTCCTGGTGGCCATGCTCCCCCTAGAAGGTGCTTCTGGCCTACCTCCT  
GATCGGATGGGGCCTCCCCACCGTCTGCATCGGTGCATGGACTGCGGCCAGGCTCTACTTAGAAGACACCGGTTG  
CTGGGATACAAACGACCACAGTGTGCCCTGGTGGGTCATACGAATACCGATTTTAATTTCCATCATCGTCAATTT  
TGTCCTTTTTATTAGTATTATACGAATTTTGCTGCAGAAGTTAACATCCCCAGATGTCGGCGGCAACGACCAGTC  
TCAGTACAAGAGGCTGGCCAAGTCCACGCTCCTGCTTATCCCGCTGTTTCGGCGTCCACTACATGGTGTGTTGCCGT  
GTTTCCCATCAGCATCTCCTCCAAATACCAGATACTGTTTGGAGCTGTGCCTCGGGTCGTTCCAGGGCCTGGTGGT  
GGCCGTCTCTACTGTTTCTGAACAGTGAGGTGCAGTGCGAGCTGAAGCGAAAATGGCGAAGCCGGTGCCCCGAC  
CCCGTCCGCGAGCCGGGATTACAGGGTCTGCGGTTCCTCCTTCTCCCGCAACGGCTCGGAGGGCGCCCTGCAGTT  
CCACCGCGGCTCCCGCGCCAGTCTCCTGCAAACGGAGACCTCGGTTCATCTAGCCCCACCCCTGCCTGTGCGGA  
CGCGGCGGGAGGCCCACGGTTCGGGGCTTCTGCGGGGCTGAGACGCCGGCTTCCTCCTTCCAGATGCCCGAGCAC  
CGTGTGCGGCAGGTCAGCGCGGTCTGACTCCGTCAAGCTGGTTGTCCACTAAACCCCATACCTGG

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**FIGURE 2470A**

GTGAACCGTGATGTGAGGGATCTAGGTTGCGCTATCCTTATGAGAATCTAATACCTATTGATCTGTCACTTTCT  
CCCATCACGCTCAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTAACACGCCCAGTATTCTACATTATGCTC  
CTACCTCCCAGCAGCCTCTCCAGGCCAGAACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAAT  
GGCCTATTTAGGCCCATACCTACCTCACGGCAGTCTCCGCAGATGAGCCTACTGCCTCACAACAGCCTCCACAG  
GCACAGCTCCATCGTTACAATGGCCTCTTTAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACCT  
TCTCAAGTCGACCTCACCAGGCCAGCTCATGCTTCTTTGAGCCTCTCCAGGCCAGCTCCTGCATCTTGGTGG  
CACCTCCAGGCCAGCCTCTGCCTCCCGTCGGCCTCTACAATCCCAACATCTGCCTCACAGCAGATTCTTCAGGC  
CCAGCATCTGCCTCACTGTGGACCCCCCAAGCCAAGCTCCCAACCTTTTCAGCAGCTTCTACACACCCAACTCCTG  
CCACCCAGTGGCCTCTTTAGGCCAAGCTCATGCTTACAAGGGCCTTTCCAGGCTCAACTTTTGTCTCATGGCAA  
CCTTTCTGGCCAGATTCTGCCTGTCTCCAGCAGCCTAGACAGGCCAGGTCTTGCCTCACACTGGCCTCTCT  
ACATCCAGCTCATGCCTCACGGTGGCCTCTCCAGGCCAACTCCTGTCCAGGACGTATCTCCGGGCCCAAAC  
TTACTCAAGTCAGACTCTCTAGTCCCAACTGCTGCCTCCTGGTGGCCTATGAAGGCCCAAAATCTCCTCAAGTGG  
ACCTCTCCAGGCCAGCTCCTGCCTCCTGTGAGCCTCTACAGGCCAACTCTGCCTCATGGGGGCTTCTCCAGG  
CCCACCTCTTCTCTTGGCTGGGTCTACAGGCACAACGCTGCCTCACAACAGCCTTTTTTGGCCCCAGTTCTCT  
CCAGCTCATGGCGGCCAATGTAGGCCCAAACTTCTCAAGTCAAACCTCTCCAGGCCACCTTCTGCTTCCCGGT  
GGCATGAACAGGCCAGCCTTTGACTTGAGAACAGCCTCTGCAGGCCCTGCTCTTGCCTCCCAGGGGCTTTTTCCA  
GACCCAGCTCCTGCCTCATGGCAGCTGCCCCAGGCCAAATTTCTGCCTGCCTGCCAGCAGCCTCAACAGGCACAG  
CTCCTCCCTCACAGTGGCCCATTTAGGCCAACTCATGACTGTGGGCCATTTCCAGGCCCTAGTGCCTGCCTCGT  
GGCTGACTCTTGAAGCCCAAACTTCTCAAATCAGCCTTTTGCCCAACTTCTGTCTACTGTGCGACTCTACAGG  
CCAGCCTCTGCCTCACAGTGGACCTCCAGACCCAGATGGTGTCTACTGTGGCATCCTCAGGCCAAGCTCCTGC  
CTTTCCGCAGCCTCTACAGGCCAGCTCCTGCCTTGCAGTGGCCTCTTTAGGCCAAGCTCATGCCCCATGGCGAC  
TTTTCCAGGCACAGCTTTTGCCTTTTGCAGCCTGTCCAGGCCCAGAAATGTCCTTAACTCGGCATCTCCAGGATGA  
GCTCATCCTCCAGTGCCTCTACAGGCCCGTCTCCTGCCTCACAACAACCTCCTTTGGCCCAACTCCTGCTGAGC  
TGCTGGCAGCCTCTGTAGGCCACAGAATTCTTAAGGTAAAGCTTTCCAGGCCACCTTTGGCCTCCCGGCAGGCT  
CAGCAATCAAACCTATTCCCTCACTGCGGCCACCGAAAGCCAAGTTTCTCCCTGCCTCACGGCATCCTCCGAAAAC  
TGAGCATTGCTCACGGTGGCCTCCCCAGGCCATGAATCTGCCTGCCTCCAGGCAGCTGCTGCCTCACAATGG  
TCTCTTTAGGCCAGCTCATGCTAAAAGATGGACTCTCCAGGCACAGCTCTTGCCTCCTGGCAGCCTCTGCAGGC  
CCAAATTTCTCCAAAGTTGGCCTCTCCTAACTCAGCTCCTGCCTCATGTGCGCTTACACAGGCCAGACTCTTAC  
CACACAGTAGACCTCCAGGCCACCACTTGCTGATCATAGCCTCCTAAGGCCAAGCTCCTGCCTTTCCGGCAGC  
CTCTACAGGCCAAGCTCCTGCCTCGCAATTGCTCTGTAGGCCAAGATCATGCCGTGAAGTGGCCTTCCCTAGCC  
TAACTTTTGCTTTTGTAGCATACTCCAGTCCCAAACTTCTCCAGTCAGCCGGTCCAGGCCAAGCTCTTCTC  
CCAAAGGCTTCTGCAGGCCAAATCATCCTGAAGTCAACCTCTGCAGGCGCAGCTCCTGCCTCCAAGTGTGTGT  
AGGCCAAGCTAATGCCTCACAGCACACTTTCCAGGCTGAGCATTTCTTTTGTGCATCCTCTCCAAGCCCTGAAC  
TTACTCCAGTTGGCCTCTCCAGACCAAGCTCTCCCTCCAGTGGCCTCTACAGGCCAAATTTGTCTCAGGTCAG  
CCTCTCCAGGGCCAACCTCCTAGCTACCGGTGGCTTCTGCAGGCCAAATCGACCTCAAGTCAGCCTCTTACACC  
CAGCTCTTGCCTCTGAGTGGCCTCTCCAGGAGCAAACTTTCTCAAGTCGGCCTCTCCAGGCCAGCCTCCTGCT  
TCCCGAGGGCATGTACAGGCCAGCCTCTGCCTCACAGCAGACTCTTACACCCAGCTCTTCCCTGTCTGCGGCC  
TCTCCAGTCCAAAGCTGCTCCTGCCTTTTGGCAGCTTGTACAGGCCAGCTCCTCCCTCACGGTGGCCTCTTTCCG  
GCCCAACTCATGCCTCTTGAACGTGCCCAAGTGTGAGCTCCTGCCTCACACTGGCCTGTTGAGGCCAGCTCAT  
GCCTCTCGTGGCCTCAACGGGGCCATCCCTGCCTGTGCGCGGCCCTCTACAGGCCCGGCCTCTACCTCACAGTGG  
GCTCTCCAGGCCACCTCTTCTCACCGTGGCCTCCTGGGGCAATGCTCCTCCCTCTCGGGAGCCTCTGTGGGCC  
CAGCTCCTGCCTCCAGTGGCCTCTGCTGGCCAAGCCGTGCCTCAGGGCAGCCTTTCCAGGCCCTAGCGTTTGTCT  
GCTTTGCATCCTCTCCAGGCCCTGGACTTCTCCAGTCGGCCTCTCCAGGCCAGCTCTTCTCTCGGCGGCCTC  
TGCAGGCCAGACTGTGCTCAAGTCGGCCTGTCCAGGGCCAGCTCCTGCCTCCCGGGCGGCCTCTGCAGGCCAAG  
TCGTCCTCAAGTTGGCCTCCCCAGGCCAGCAACGGCCTCTCGGCGGCCTTTCCGGGTGCAAAAGTTCTCGAGT  
CAGCCTCTCCAGGCCAGCTCCTCCTGCCTCCAGTGGCCTCTTTCGGGCCAGGCCAGCTCATGCCTCCCGGCGG  
CCTTCCAGGCCCTGCTTTTGAATTTGGTGGCCTCTGCAGGCCCTGACAAGGCCAGGCCTCCTGCCTCCCAAG  
GCCTGCACAGGCCAGCCTCTGCCTCACAGCAGACTCTCCAGGCCAGCTAGCTCTGCCTCACTGCGGCTTCCC



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**FIGURE 2470B**

GAGTCCAAAGCTCCTGCCTCTCAGCCGCTTCGGCAGGCCCAGCTCCCGCCTGCCAGTGGCCTCTTCAGGCCCATG  
GGGCTCATTCTCACAACGGCCTTTCAGGCCCAGTTTTCCCTTCGGCGGCCTCTTGGCCTCTAATTGTTTA  
TCTTTGGGTATAAATCCCAAATATTGAATTTTGAATATTTCCACCATT

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**FIGURE 2471**

TCTAATACCTATTGATCTGTCACCTTTCTCCCATCACGCTCAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTA  
ACACGCCCCTGATTCTACATTATGGTGAGTTCTATAATTATTTTATTATATATTACAGTGTAAATAATGGAAATA  
AAGTGCCTAATAAATGTAAATGTGCTTAAATCTTTTGGCCCAGCTCCTACCTCCCAGCAGCCTCTCCAGGCCCAG  
AACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCCCATAACCCTACCTCAC  
GGCAGTCTCCGCAGATGAGCCTACTGCCTCACAAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTT  
TAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACCTTTCTCAAGTCGACCTCACCAGGCCCAGCTC  
ATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGGCACCTCCAGGCCCAGCCTCTGCCTCCCGT  
CGGCTCTACAATCCCAACATCTGCCTCACAGCAGATTCTTCAGGCCCAGCATCTGCCTCACTGTGGACCCCCCA  
GACCCAGATGGTGTCTCACTGTGGCATCCTCAGGCGAAGCTCCTGCCTTTCCGCAGCCTCTCCAGGCCCAGCTCC  
TCCTGCCTCCCAGTGGCCTCTTTCGGCCCAGCCCAGCTCATGGCTCTCGGCGGCCTTCCCAGGCCCCGCTTTTGA  
CTTTTGGCGGCCTCTTCAGGCC

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**FIGURE 2472**

TCTAATACCTATTGATCTGTCACCTTTCTCCCATCACGCTCAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTA  
ACACGCCCCTGATTCTACATTATGGTGAGTTCTATAATTATTTTATTATATATTACAGTGTAATAATGGAAATA  
AAGTGCCTAATAAAATGCAAATGTGCTTACATCTTTTGGCCCAGCTCCTACCTCCTGGCAGCCTCTCCAGGCCAG  
AACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCCCATACCTACGTCAC  
GGCAGTCTCCGCAGATGAGGCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTT  
TAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACCTTTCTCAAGTCGACCTCACCAGGCCAGCTC  
ATGCTTCTTTGCAGCCTCTCCAGGCCAGCTCCTGCATCTTGGTGGCCCCCTCCAGGCCAGCCTCTGCCTCCCGT  
CGGCCTCTACAGTCCCAACATCTGTCTCACAGCAGATTCTTCAGGCCAGCATCTGCCTCACTTGGACCCTCCAG  
ACCCAGATGGTGTCTCACTGTGGCATCCTCAGGTGAAGCTCCTGCCTTTCGGCAGCCTCTCCAGGCCAGCTCCT  
CCTGCCTCCCAGTGGCCTCTTTCGGCCCCAGCCCAGCTCATGCCTCCCGGCGGCCTTCCCAAGCCCCGCTTTTGAC  
TTTCCACCGAAAGTCCCAGCCTCCTGCCTCCCGAAGGCCTGCACAGGCCCA

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**FIGURE 2473**

ATGTTGCCAATAACACAGATGAAGAGACTGGGGGATGGCACTATCACTGCTGCTGTACTGAAGGTTAGCAAAGGT  
GCTAATCCAGTGGAATCAAGAGAGGTGTGATGTTAGCTGTTGATGCTGTAATTGCTGAACTTAAAAAGCAGTCT  
AAACCTGTGACCAAACCTGAAGAAATTGCACAGGTTGCTACAATTTCTGCAAATGGAGACAAAGAAATTGGTAAC  
ATCATCTCTGATGCAATGAAAAAGTTTGAAGAAAGGGCATCATCAAAAAATTTCTAGTGTCCAGTCCATTGTA  
ACTGCTCTTGAAATTGCCAATGCTTACTGTAAGCCTTTGGTCATAATTGCTGGAGACATTGATGGAGAAGCTCTA  
ACTACACTCATCCTGAATAGGCTAAAGGTTGGTCTTCAGGTTGTGGCAGTCAAAGCTCCAGGGTTTGGTGACAAT  
AGAAAGAACCAGCTTAAAGATACGGTTATTGCTACTGGTGGAGAAGTTGGAGAGGTCACTGTGATCAAAGATTAT  
GCCATGCTCTTAAAAGGAAAAGGTAACAAGTCTCAAATTGAAAAATGTGTTCAAGAAATCATTGACCAGTCAGAT  
GTCACAAGTGTGAATACGAAAAGGAAAACTGAGTGGAGAACTTTTCAGATGGAGTAGCTGTGCTGAAGCTAAT  
GAAGATAAAATAATTGGTATAGAAATTATTTAAAAGAACTCAAAATTCAGCAATGACAATTGCTAAGAATGCA  
GGTGTGATGGATTTTGTAGTTGAGAAAATTATGTAA

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**FIGURE 2474**

MLPITQMKRLGDTITA AVLK VSKGANPVEIKRGVMLAVDAVIAELKKQSKPVTKP EEIAQVATISANGDKEIGN  
IISDAMKKFGRKGIITKISSVQSIVTALEIANAYCKPLVIIAGDIDGEALTTLILNRLKVGLQVVAVKAPGFGDN  
RKNQLKDTVIAATGGEVGEVTVIKDYAMLLKGKGNKSQIEKCVQEIIDQSDVTTSEYEKEKLSGETFRWSSCAEAN  
EDKIIGIEIIKRTLKIPAMTIAKNAGVDGFLIVEKIM

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**FIGURE 2475**

ATGTACTGGGACATCGTGTCTTTGGAGACAGCTATACCCCCTTGTCCATTCTGCTGAGGCCCACAAATGCCATC  
ACCCAGAAGCCCTTCACATCCACTGGGGCCACAGCAGGATACAGTCTGTTGCTGGTCCAGCAGCCTGATAAAATC  
ATTGTCCTCTCCACCCTGATTCCCTACAGGAGACTACTCACCCATAACCTCAAAAACCTCTTCATGAGGATGGTG  
ACCCAGCCATGAGGACCCTCGCCATCCTTGCTGCCATTCTCCTGGTGGCCCTGCAGGCCCAGGCTGAGCCACTC  
CAGGCAAGAGCTGATGAGGTTGCTGCAGCCCCGGAGCAGATTGCAGCGGACATCCCAGAAGTGGTTGTTCCCTT  
GCATGGGACGAAAGCTTGGCTCCAAAGCATCCAGGCTCAAGGAAAAACATGGACTGCTATTGCAGAATACCAGCG  
TGCAATTGCAGGAGAACGTCGCTATGGAACCTGCATCTACCAGGAAGACTCTGGGCATTCTGCTGCTGA

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**FIGURE 2476**

CTATAGAAGACCTGGGACAGAGGACTGCTGTCTGCCCTCTCTGGTCACCCTGCCTAGCTAGAGGATCTGTGACCC  
CAGCCATGAGGACCCTCGCCATCCTTGCTGCCATTCTCCTGGTGGCCCTGCAGGCCCAGGCTGAGCCACTCCAGG  
CAAGAGCTGATGAGGTTGCTGCAGCCCCGGAGCAGATTGCAGCGGACATCCCAGAAGTGTTGTTTCCCTTGCAT  
GGGACGAAAGCTTGGCTCCAAAGCATCCAGGCTCAAGGAAAAACATGGCCTGCTATTGCAGAATACCAGCGTGCA  
TTGCAGGAGAACGTCGCTATGGAACCTGCATCTACCAGGGAAGACTCTGGGCATTCTGCTGCTTGAGCTTGCAGAA  
AAAGAAAAATGAGCTCAAAATTTGCTTTGAGAGCTACAGGGAATTGCTATTACTCCTGTACCTTCTGCTCAATTT  
CCTTTCCTCATCCCAAATAAATGCCTTGGTACAAGAAAAG

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**FIGURE 2477**

MRTLAILAAILLVALQAQAEPLQARADEVAAAPEQIAADIPEVVVSLAWDESLAPKHGSRKNMACYCRIPACIA  
GERRYGTCTIYQGRLWAFCC



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**FIGURE 2478**

CCTTGCTATAGAAGACCTGGGACAGAGGACTGCTGTCTGCCCTCTCTGGTCACCCTGCCTAGCTAGAGGATCTGT  
GACCCAGCCATGAGGACCCTCGCCATCCTTGCTGCCATTCTCCTGGTGGCCCTGCAGGCCCAGGCTGAGCCACT  
CCAGGCAAGAGCTGATGAGGTTGCTGCAGCCCCGGAGCAGATTGCAGCGGACATCCAGAAGTGGTTGTTCCCT  
TGCATGGGACGAAAGCTTGGCTCCAAAGCATCCAGGCTCAAGGAAAAACATGGACTGCTATTGCAGAATACCAGC  
GTGCATTGCAGGAGAACGTCGCTATGGAACCTGCATCTACCAGGGAAGACTCTGGGCATTCTGCTGCTTGAGCTTG  
CAGAAAAAGAAAAATGAGCTCAAAATTTGCTTTGAGAGCTACAGGGAATTGCTATTACTCCTGTACCTTCTGCTC  
AATTCCTTTCCTCATCTCAAATAAATGCCTTGTTAC

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**FIGURE 2479**

MRTLAILAAILLVALQAQAEPLQARADEVAAPEQIAADIPEVVVSLAWDESLAPKHPGSRKNMDCYCRIPACIA  
GERRYGTCTIYQGRLWAFCC

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**FIGURE 2480**

ATGCAGGTCTGCAACTGCAGGTGCCTCTCACCTGGTGACCTGCAGGAAGATGGAGGAGCATATTGGGCACAGTGC  
TCGGTTTGGGGGGCGCACTTCGACCCGGAAGTTTACCTAGACAAGCTGCATAGAGTGTGCCCTCTGGCCCAGCTG  
ATGGACAGTGAGACGGACATGGTGCGGCAGATCCGGGCTATAGACAGCGACATGCAGACCCTGGTCTATGAGAAC  
TACGACAAGGAGACTATCGGGGTGCAACCTGGCTGGGGCGGGGAGGAGGTGCAGGGCCTGGCCAGAGCGGGCCTG  
GCCACGGGCAAGGGACAGCGACCGCCTGGGCCAGGACAGGTGAGAGCGGCGCAGTCCCGGGCCCGGCGTGTCCGC  
GCTGCGCGGGAGAGGCCAGCAGAGGGCGCCAGAGAGCCAGGAGCGGCCCCGCGAGGAGCCCGCGCCAGCCGGATG  
CCCAGCTCCGCGCCGCGCGGACCCAACGAGCCCGCGCTCAGACGCCCCAGCTCCGCGGAGAGGCCGCTCGCGCCG  
GGCAGAGCCCCTGGAGCCATGGCCAGCCCTTCCGGCAGCTCCGAAGCCACTGGCAAGCCCCGAGGCAGGGATGGC  
CGGCCCAGGAGGGAGGAGGACGACGTCCCTCCCGAAGAGAAGAGGCTACGGCTGTTGCTGGAGGGGGGAAGCGCA  
CAGCCCGAGGACTGCGAGGACGGGGAGGACGCGCTGCGGCCGGGCAGGGAGGAGACCGGCACCTAG

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**FIGURE 2481**

MQVCNCRCLSPGDLQEDGGAYWAQCSVWGAHFDPEVYLDKLHRVCPLAQLMDSETDMVRQIRAIIDSDMQTLVYEN  
YDKETIGVQPGWGGEVQGLARAGLATGKGQRPPGPGQVRAAQSRARRVRAARERPAEGAREFGAARGGARASRM  
PSSAPRGPNEPALRRPSSAERPLAPGRAPGAMASPSGSSEATGKPRGRDGRPRREDDVPPEEKRLRLLEGGSA  
QPEDCEDGEDALRPGREETGT

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**FIGURE 2482**

GAGAGTCGCGCCCCGGGAGTCCGCGCCTGCGCCAGGATGGAGTTCGTGAAATGCCTTGGCCACCCCGAAGAGTTC  
TACAACCTGGTGCCTTCCGGATCGGGGGCAAGCGGAAGGTGATGCCAAGATGGACCAGGACTCGCTCAGCAGC  
AGCCTGAAAACCTTGCTACAAGTATCTCAATCAGACCAGTCGCAGTTTCGCAGCTGTTATCCAGGCGCTGGATGGG  
GAAATGCGCAACGCAGTGTGCATATTTTATCTGGTTCTCCGAGCTCTGGACACACTGGAAGATGACATGACCATC  
AGTGTGGAAAAGAAGGTCCCGCTGTTACACAACCTTTCCTCTTTTACCAACCAGACTGGCGGTTTCATGGAG  
AGCAAGGAGAAGGATCGCCAGGTGCTGGAGGACTTCCCAACGATCTCCCTTGAGTTTAGAAAATCTGGCTGAGAAA  
TACCAACAGTGATTGCCGACATTTGCCGGAGAATGGGCATTGGGATGGCAGAGTTTTTGGATAAGCATGTGACC  
TCTGAACAGGAGTGGGACAAGTACTGCCACTATGTTGCTGGGCTGGTCGGAATTGGCCTTTCCCGTCTTTTCTCA  
GCCTCAGAGTTTGAAGACCCCTTAGTTGGTGAAGATACAGAACGTGCCAACTCTATGGGCCTGTTTTTGCAGAAA  
ACAAACATCATCCGTGACTATCTGGAAGACCAGCAAGGAGGAAGAGAGTTCTGGCCTCAAGAGGTTTGGAGCAGG  
TATGTTAAGAAGTTAGGGGATTTTGCTAAGCCGGAGAATATTGACTTGGCCGTGCAGTGCCTGAATGAACCTTATA  
ACCAATGCACTGCACCACATCCCAGATGTCATCACCTACCTTTCGAGACTCAGAAACCAGAGTGTGTTTAACCTC  
TGTGCTATTCCACAGGTGATGGCCATTGCCACTTTGGCTGCCTGTTATAATAACCAGCAGGTGTTCAAAGGGGCA  
GTGAAGATTTCGAAAGGGCAAGCAGTGACCCTGATGATGGATGCCACCAATATGCCAGCTGTCAAAGCCATCATA  
TATCAGTATATGGAAGAGATTTATCATAGAATCCCCGACTCAGACCCATCTTCTAGCAAAACAAGGCAGATCATC  
TCCACCATCCGGACGCAGAATCTTCCCAACTGTCAGCTGATTTCCCGAAGCCACTACTCCCCATCTACCTGTCTG  
TTTGTCTATGCTTTTGGCTGCCCTGAGCTGGCAGTACCTGACCACTCTCTCCAGGTAACAGAAGACTATGTTTCTCAG  
ACTGGAGAACACTGATCCCAAATTTGTCCATAGCTGAAGTCCACCATAAAGTGGATTTACTTTTTTCTTTAAGG  
ATGGATGTTGTGTTCTCTTTATTTTTTCTTACTACTTTAATCCCTAAAAGAACGCTGTGTGGCTGGGACCTTTA  
GGAAAGTGAAATGCAGGTGAGAAGAACCTAAACATGAAAGGAAAGGGTGCCTCATCCCAGCAACCTGTCTTGTG  
GGTGATGATCACTGTGCTGCTTGTGGCTCATGGCAGAGCATTTCAGTGCCACGGTTTAGGTGAAGTCGCTGCATAT  
GTGACTGTCATGAGATCCTACTTAGTATGATCCTGGCTAGAATGATAATTAAAAGTATTTAATTTG

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**FIGURE 2483**

TCCGGCAACGCCAACCGCTCCGCTGCGCGCAGGCTGGGCTGCAGGCTCTCGGCTGCAGCGCTGGGCTGGTGTGCA  
GTGGTGCGACCACGGCTCACGGCAGCCTCAGCCACCCAGATGTAAGCGATCTGGTTCCACCTCAGCCTCCCGAG  
TAGTGATCTAGGATCCGGCTTCCAACATGTGGCAGCTCTGGGCCTCCCTCTGCTGCCTGCTGGTGTGGCCAAT  
GCCCCGAGCAGGCCCTCTTCCATCCCCTGTGCGATGAGCTGGTCAACTATGTCAACAAACGGAATACCACGTGG  
CAGGCCGGGCACAACCTTCTACAACGTGGACATGAGCTACTTGAAGAGGCTATGTGGTACCTTCCTGGGTGGGCC  
AAGCCACCCAGAGAGTTATGTTTACCGAGGACCTGAAGCTGCCTGCAAGCTTCGATGCACGGGAACAATGGCCA  
CAGTGTCCCACCATCAAAGAGATCAGAGACCAGGGCTCCTGTGGCTCCTGCTGGGCCTTCGGGGCTGTGGAAGCC  
ATCTCTGACCGGATCTGCATCCACCAATGCGCACGTGAGCGTGGAGGTGTGCGCGGAGGACCTGCTCACATGC  
TGTGGCAGCATGTGTGGGGACGGCTGTAATGGTGGCTATCCTGCTGAAGCTTGGAACCTTCTGGACAAGAAAAGGC  
CTGGTTTTCTGGTGGCCTCTATGAATCCCATGTAGGGTGCAGACCGTACTCCATCCCTCCCTGTGAGCACCACGTC  
AACGGCTCCCCGGCCCCCATGCACGGGGGAGGGAGATACCCCCAAGTGTAGCAAGATCTGTGAGCCTGGCTACAGC  
CCGACCTACAAACAGGACAAGCACTACGGATACAATTCTACAGCGTCTCCAATAGCGAGAAGGACATCATGGCC  
GAGATCTACAAAAACGGCCCCGTGGAGGGAGCTTTCTCTGTGTATTTCGGACTTCCTGCTCTACAAGTCAGGAGTG  
TACCAACACGTACCGGAGAGATGATGGGTGGCCATGCCATCCGCATCCTGGGCTGGGGAGTGGAATGGCACA  
CCCTACTGGCTGGTTGCCAACTCCTGGAACACTGACTGGGGTGACAATGGCTTCTTTAAATACTCAGAGGACAG  
GATCACTGTGGAATCGAATCAGAAGTGGTGGCTGGAATTCCACGCACCGATCAGTACTGGGAAAAGATCTTAATCT  
GCCGTGGGCCTGTCTGCCAGTCTTGGGGGCGAGATCGGGGTAGAAATGCATTTTATTCTTTAAGTTCACGTAAG  
ATACAAGTTTCAGACAGGGTCTGAAGGACTGGATTGGCCAAACATCAGACCTGTCTTCCAAGGAGACCAAGTCCT  
GGCTACATCCCAGCCTGTGGTTACAGTGCAGACAGGCCATGTGAGCCACCGCTGCCAGCACAGAGCGTCTCTCCC  
CCTGTAGACTAGTGCCGTAGGGAGTACCTGCTGCCCCAGCTGACTGTGGCCCCCTCCGTGATCCATCCATCTCCA  
GGGAGCAAGACAGAGACGCAGGAATGGAAGCGGAGTTCCTAACAGGATGAAAGTTCCCCCATCAGTTCCCCCAG  
TACCTCCAAGCAAGTAGCTTTCCACATTTGTACAGAAATCAGAGGAGAGACGGTGTGGGAGCCCTTTGGAGAA  
CGCCAGTCTCCCAGGCCCTGCATCTATCGAGTTTGCAATGTCACAACCTCTCTGATCTTGTGCTCAGCATGAT  
TCTTTAATAGAAGTTTTATTTTTCTGTCAGTCTGCTAATCATGTGGGTGAGCCAGTGGAACAGCGGGAGACCTG  
TGCTAGTTTTACAGATTGCCTCCTTATGACGCGGCTCAAAAGGAAACCAAGTGGTCAGGAGTTGTTTCTGACCCA  
CTGATCTCTACTACCACAAGGAAAATAGTTTAGGAGAAACCAGCTTTTACTGTTTTTGAAAAATTACAGCTTCAC  
CCTGTCAAGTTAACAAGGAATGCCTGTGCCAATAAAAGTTTTCTCCAACCTGA

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**FIGURE 2484**

MWQLWASLCCLLVLANARSRPSFHPLSDELVNYVNKRNTTWQAGHNFYNVDMSYLKRLCGTFLGGPKPPQRMFT  
EDLKLPASFDAREQWPQCPTIKEIRDQGSCGSCWAFGAVEAISDRICIHTNAHVSVEVSAEDLLTCCGSMCGDGC  
NGGYPAEAWNFWTRKGLVSGGLYESHVGC RPYSIPPCEHHVNGSRPPCTGEGDTPKCSKICEPGYSPTYKQDKHY  
GYNSYSVSNSEKDIMAEIYKNGPVEGAFSVYSDFLLYKSGVYQHVTGEMMGGHAI RILGWGVENGTPYWL VANSW  
NTDWGDNGFFKILRGQDHCGIESEVVAGIPRTDQYWEKI

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**FIGURE 2485**

CTGGGAAGCAGAGTGTCTGGATGGAACCTGAGCTGGGTCTCTGACTCACTTCTGACTTTAGTTTTTTCAAGGGGG  
AACATGGCAAAGGTGTTTCAGTTTCATCCTTGTTACCACCGCTCTGATAATGGGCAGGGAAATTCGXXXXXXXXXX  
XX  
XX  
XXAGATTTTCAATGATGGGTATAAGCTCAGTGGATTTTACAAAATC  
AAACCTCTCCAGAGCCTAGCAGAATTTCTGTTTATTGTGACATGTCCGATGGAGGAGGATGGACTGTAATTCAG  
AGACGATCTGATGGCAGTGAAAACCTTTAACAGAGGATGGAAAGACTATGAAAATGGCTTTGGAAATTTGTCCAA  
AAACATGGTGAATATTGGCTGGGCAATAAAAAATCTTCACTTCTTGACCACTCAAGAAGACTACACTTTAAAAATC  
GACCTTGCAGATTTTGAAAAAATAGCCGTTATGCACAATATAAGAATTTCAAAGTTGGAGATGAAAAGAATTC  
TACGAGTTGAATATTGGGGAATATTCTGGAACAGCTGGAGATTCCCTTGCGGGGAATTTTCATCCTGAGGTGCAG  
TGGTGGGCTAGTCACCAAGAATGAAATTCAGCACGTGGGACAGAGATCATGACAACCTATGAAGGGAAGTGCSCA  
GAAGAAGATCAGTCTGGCTTGTGGTTTAACAGGTGTCACTCTGCAAACCTGAATGGTGTATACTACAGCGGCCCC  
TACACGGCTAAAACAGACAATGGGATTGTCTGGTACACCTGGCATGGGTGGTGGTATTCTCTGAAATCTGTGGTT  
ATGAAAATTAGGCCAAATGATTTTATTCCAAATGTAATTTAAATTGCTGCTGTTGGGCTTTCTGTTCTGCAATTCA  
GCTTTGTTTAAAGTGATTTGAAAAATACTCATTCTGAACATATCCATGCGCAATCATGATAACTGTTGTGAGTAG  
TGCTTTTCATTCTTCTCACTTGCCTTTGTTACTTAATGTGCTTTCAGTACAGCAGATATGCAATATTCACCAAAT  
AAATGTAGACTGTGTT



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**FIGURE 2486**

MAKVFSFILVTTALIMGREISXXX  
XXXXXXXXXXIFNDGYKLSGFYKIKPLQSLAEFSVYCDMSDGGGWTVIQRRSDGSENFNRGWKDYENGFGNFVQK  
HGEYWLGNKNLHFLTQEDYTLKIDLADFEKNSRYAQYKNFKVGDEKNFYELNIGEYSGTAGDSLGNFHPFVQW  
WASHQRMKFSTWDRDHDNYEGNCAEEDQSGLWFNRCHSANLNGVYYSGPYTAKTDNGIVWYTWGWWYSLKSVVM  
KIRPNDFIPNVI

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**FIGURE 2487**

GGGACAGAGGAGACAAGATGGCGCTGCGGGCGATGCGGGGGATTGTCAACGGGGCCGCACCCGAGCTACCCGTGC  
CCACCGGTGGGCGCGGTGGGAGCTCGGGAGCAGGCGCTGGCAGTCAGTCGGAACCTCTCCAGCCTCGCC  
TCACATACAAGACAGTATCTGGAGTCAATGGTCCACTAGTGATCTTAGATCATGTTAAGTTTCCCAGGTATGCTG  
AAATTGTCCATTTGACCTTACCGGATGGCACAAAGAGAAGTGGGCAAGTTCTGGAAGTTAGTGGTTCCAAGGCAG  
TAGTTCAGGTATTTGAAGGGACTTCAGGTATAGATGCTAAGAAAACGTCCTGTGAGTTTACTGGGGATATTCTCC  
GAACACCGGTGTCTGAGGATATGCTTGGTTCGGGTATTCAATGGATCGGGAAAACCCATTGACAGAGGTCCTGTTG  
TACTGGCCGAAGACTTCCTTGATATCATGGGTGAGCCAATCAACCCTCAATGTGCAATCTACCCAGAGGAAATGA  
TTCAGACTGGCATTTCGGCCATCGATGGGATGAACAGTATTGCTAGGGGGCAGAAAATTCCTATCTTCTCTGCTG  
CTGGGCTACCACACAATGAGATTGCAGCTCAGATCTGTCGCCAGGCTGGTTTTGGTAAAGAAATCCAAAGATGTAG  
TAGACTACAGTGAGGAAAATTTTGCAATTGTATTTGCTGCTATGGGTGTAAACATGGAAACTGCCCGTTCTTCA  
AATCTGACTTTGAAGAAAATGGCTCAATGGACAATGTCTGCCTCTTTTTGAACCTGGCTAATGACCCAACCATTG  
AGCGAATTATCACTCCTCGCCTGGCTCTAACCACAGCTGAATTTCTGGCGTACCAATGTGAGAAACATGTATTGG  
TTATTCTAACAGACATGAGTTCTTATGCTGAAGCACTTCGAGAGGTTTTCAGCAGCCAGGGAAGAGGTACCTGGTC  
GACGAGGTTTTCCAGGTTACATGTATACAGATTTAGCCACGATATATGAACGCGCTGGGCGAGTGGAAGGGAGAA  
ACGGCTCGATTACTCAAATCCCTATTCTAACCATGCCTAATGATGATATCACTCACCCCATCCAGACTTGACTG  
GCTACATTACAGAGGGGCAGATCTATGTGGACAGACAGCTGCACAACAGACAGATTTATCCACCTATCAATGTGC  
TGCCCTCACTATCACGGTTAATGAAGTCTGCTATTGGAGAAGGGATGACCAGGAAGGATCATGCCGATGTATCTA  
ACCAGCTAGTATGCGTGCTATGCTATTGGAAAGGATGTGCAAGCCATGAAAGCTGTCGTTGGAGAAGAAGCCCTT  
ACCTCAGATGATCTTCTCTACTTGGAATTTCTGCAGAAGTTTGAGAGGAACCTTCATTGCTCAGGGTCCTTACGAA  
AATCGCACTGTCTTTGAGACTTTGGACATTGGCTGGCAGCTACTCCGAATCTTCCCCAAAGAAATGCTGAAGAGA  
ATCCCTCAGAGCACCTCAGCGAATTTTACCCTCGAGACTCTGCAAAGCATTAGCTGCTGCTTCTGCATTGCTCC  
GCGCTCTTGTAATACTGGTTCTGTTTTCTTTATTCTTTTGCCTCTCGGTTCCACCTTTGTGTTGGAGTTT  
ACCATGTTACCCTGTAATTAATAAACAAGAAATAGGTAACATATTGTGCCAGTGTTGCAACGTTTTAACTGCTAA  
CAGACCTTAAATATCCCCCTACCTGGGTCTCAGTGCTATGTTTAAAGTGCTGCAGGGATGGAGTGGCGTTTTCT  
TTATTGCTGTATGTATTGTACATAGTGAGTAGTTAGTTACCTGATAACAGTCTTGTTATTTGGGTCTCTTAGAC  
CTTACCTCTCAACTCCCTCAAGAGTACCAGTCTCTGAAGTTATAATGCTTTGGTCTCTACATTAGGGGCAAGATC  
CAGTCTGAGAGAAGTCTCCTTTGAGAAGGGCCAAGAGGCTCTTTCCTGAGTGTTTGCTTTTCGGTTTGTGGTATG  
CCTGTATTGCTGGGCTGTGCTGCTGCTCGAAGCAGATGGTTTTGACTGTCTTTTGTCTCTTCTATATAATGAA  
TAGATGAGTGAAAGGAGTTTTCTTTTTCTTTTAGTACTTACGTATTGGGATTCTGTGTCTTACAGCTCTCCCT  
CTCCAAATAATACACAGAATCCTGCAACTTTTGCACAGCTGGTATCTGTCTGGTAGCAGTGAGACCCCTTGCT  
TGGTGATCCTTACTGGGTTTTCCAAGCAGAGGAGTCACATGATTACAATTGCCAGTAGAGTTGTTGTTTGGGGTAC  
AAGATGAGAAGAAAGAAAAACCTACAGCCTTTCTACATTCTGACATGCTAACAGTGGTTTAAAGTTTCTAAAGTGT  
TTACCAGATGCTGAAGGCAAGGGGAGGAGCAGAAGCACTTATGTTTACGGATATTTTAACTCTGTTAGAGAGC  
AGCCTTTGAAAATCCCCAATTTGGTTCTGCTTTTTGACCTCTCTACCTTTTCAGGGTAATCTTTGTGGCACAA  
ACGATAGCATTTCCAAGCTTTAGAGTTTTCTGAATTC

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**FIGURE 2488A**

CTGGCCGGGAGGCTGGAGCCCAGCAGCAGCGCGCGCGCGCGCGCTCGTCCCAACTTGCAGGCGCGGAGGGACCC  
CTGACATTTCACTAAAATGAGCGTGCTCAGCAGGAAGAGATGTGTTCTCACGCTAGAAGCCACCCCGTCACATG  
TAGTGGTGTCCCGTTTAATGGATTCTGACATGGATTATGAAAGGCCAAACGTAGAGACCATCAAGTGC GTTGTGG  
TGGGGGACAACGCCGTGGGTAAAGACCAGGCTCATCTGTGCCCCGCGCTTGCAATGCCACCCTCACCCAGTACCAGC  
TGCTGGCCACGCATGTGCCACAGTATGGGCCATCGACCAATATCGTGTGTGCCAGGAGGTGCTGGAACGCTCCC  
GAGACGTGGTAGATGATGTCAGCGTCTCTCTGCGCCTCTGGGACACCTTTGGAGACCACCACAAAGACCGTCTGCT  
TTGCTTATGGGAGATCTGATGTGGTGGTTCTGTGCTTCTCCATTGCCAACCCCAATTCCTCCACCATGTCAAGA  
CCATGTGGTACCCAGAAATCAAGCACTTCTGCCCCGAGCACCTGTTCATCTTGGTGGGCTGCCAGTTGGACCTGC  
GCTACGCTGACCTGGAGGCTGTCAACAGGGCTAGGCGACCCCTTGGCTAGGCCCCATCAAACCTAATGAAATCCTGC  
CCCCAGAGAAGGGTGGGAGGTGGCCAAGGAGCTGGGCATCCCTACTATGAGACCAGCGTGGTGGCCAGTTTCG  
GCATCAAGGACGTCTTTGACAACGCCATCCGAGCTGCACTCATCTCCCGCCGCCACCTGCAGTTCTGGAAGTCCC  
ACCTCCGCAATGTGCAGCGGCTCTGCTGCAGGCACCCCTTCTTACCCCCCAAGCCACCGCCCCGATCATCGTGG  
TGCCCCGACCCCTCCCTCCAGCAGCGAGGAGTGCCCCGCCCACCTCCTGGAGGACCCGCTCTGCGCGGACGTATCC  
TGGTGTCTGCAGGAGCGGGTGC GCATCTTTGCCACAAGATCTACCTCTCCACCTCCTCCTCCAAGTTCTATGACC  
TGTTCTCTCATGGACCTGAGTGAGGGGGAGCTGGGGGGCCCCCTCGGAGCCAGGGGGCACCACCCAGAGGACCACC  
AGGGCCACTCTGATCAACACCACCACCATCACCACCACCACCATGGGCGAGACTTCTGCTCCGAGCAGCCAGCT  
TTGACGTGTGCGAGAGCGTGGATGAGGCTGGGGGCTCCGGTCTGCTGGCCTCCGTGCTTCCACCAGCGACGGGA  
TCTTACGGGGCAACGGAACAGGGTACCTACCGGGCAGGGGTCTGTGTCTTCTTCTGGAGCCGAGCTTTTGTGA  
GCATCCAGGAAGAGATGGCAGAAGATCCTCTCACCTACAAATCCCGGCTGATGGTGGTGGTGAAGATGGACAGTT  
CCATCCAGCCGGGGCCCTTCCGGGCTGTCTCAAGTACCTGTACACGGGGGAGCTAGATGAGAACGAGCGTGACC  
TCATGCACATTGCCACATTGCTGAGCTGCTCGAGGTCTTTGATCTGCGCATGATGGTGGCCAACATTCTCAACA  
ATGAGGCCTTCATGAACCAGGAGATCACCAAGGCCTTCCACGTCCGCCGACCAACCGGGTTAAGGAGTGCTTGG  
CAAAGGCACCTTCTCAGATGTGACCTTCATCTGGATGATGGCACCATCAGCGCCCAAGCCCCCTGTTGATTT  
CCAGCTGTGACTGGATGGCTGCCATGTTTGGGGGGCCATTTGTGGAGAGCTCCACCCGGGAGGTGGTGTTCCT  
ACACAAGCAAGAGCTGCATGCGGGCCGTGCTGGAATACCTCTACACCGGCATGTTACCTCCAGCCCCGACCTGG  
ATGACATGAAGCTCATATTCTAGCCAACCGCTCTGCCTGCCACACCTGGTTGCCCTCAGAGCAGTACACAG  
TGACCGGGCTGATGGAAGCGACCCAGATGATGGTGGACATCGATGGGGACGTCCTTGTGTTCTTGGAACTGGCTC  
AGTTCCACTGTGCGTACCAGCTGGCCGACTGGTGTCTCCACCACATCTGCACCAACTACAACAACGTGTGCCGCA  
AGTTCCCCGAGACATGAAGGCCATGTCCCCAGAAAACCAGGAGTATTTGAGAAGCATCGGTGGCCACCTGTGT  
GGTACCTGAAGGAGGAAGATCATTACCAGCGGGCACGGAAGGAGCGTGAGAAGGAGGACTACCTCCACCTCAAGC  
GGCAGCCCAAACGGCGTTGGCTCTTCTGGAACAGTCCATCCTCCCCGTCTTCTCGGACGCTCCTCCTCATCCC  
CATCTTCTCCTCGGCTGTGGTCTGAGATGCTGCCACCCCTCTTCTGACCCTGCTGTGTGTTGTTCCCATCCGCCTT  
CACCCCTCTGCTCTTCCGCATCACCCCATCCACCTTACAGGGACCAGGGGGCCACGTAACCAGGACCCAGAGGG  
TGGAGCTCTTCTTACCAGCCACCGTGGCTCAGCCAGAGAGGAGCTGAGCCCTGTGGAGCAGAACGGGAACCACT  
GCAGAGGTCCCCAGACCCAAAGCAGGACGGGAGACAACCTGCTTGGAGGAGCGAAGAGCCCTGGCATTATCTCT  
GGGTTTGAGAGCCCTAGAGTCAAAGGGAAAGCCTCCAGCCCTCCAGGGCTTCTCTGTGTGCTTGGTTGCTGCTC  
TGGCCAGGGAGGCAGCCCCACTCCCAGCAAGCAGAAGTGATCCTCGAGGGTCTTCCCTGTTGGCCATATCTTT  
CCACCGACGGACTTGAGTGTGCAATTTGTTTTGTGGGCATTTCCACACGAAGCCTACTCACACCCTCACTGGAGA  
AGTCAGGGTAGAAATTGAGCCTTCAGAGCCCAACTCAAGGCTTCTACATCCTGGGGTGCAGCTGAAAAGGCCAG  
ACGTGGAAGGCCTGTATCCTGCCAGTGTCCCTCCGTCAGGGGGCTGTGCTGGCACAGACCTGAGAATGGGGA  
CACAGGTCAATCAGAGCTCCAGGCCTGGAAGCAGTGCCTCTTGGTGCAACAAGAACTTCTCCCTCACCCCTCC  
TTTACCCTCAGATTTGGAGATGGTAACCAAGGAAGCAGCTGGGACAGGTGGAGAAGGAAGTAGGAATGAGTGCA  
CGGCGACCCCGTGTCTCCTCAGGGCCCTCCCTGCCTCTGGGTGGCACTGCTTTTTATAGGGTGGGGCAAATTAG  
CAAAAAACAAAACCAATGACAACCAAACTGAAACCGAAACGAAAAATCAACAAACACTCTGTCTCTATCCCTC  
CAAAGAATGAAAATCAGAAAAAGCCCTGCCTAGCTCACATTTCTATAAACAGAGGCCCCCATGATGAGGAGGTG  
AAGATTTAGGTTGCAGAAATCGACTCCAATGCCTTTTCAGGAAAGGACTCGGCACTTCTCTGACTGCGGAGGCCCTG  
ACCTGCCAGCTGGCTCCGAGGGCAACACAGGGGCTGGCCTCTAGAGGGCTGGTGAATGAGGGGCCGGGCTGG  
CGGCAAGAGGGGTTTGGTCTCGGGGCTTAAATGGCACCAGACTCTTGCTTTTGCCCATCTGGAGACTGCAGGCT

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**FIGURE 2488B**

CCCTTCCTTACCCTCAGAGAGTGCTTATGGTGGGTGTTTTTTCGCGGGCTGCAATAGGGGGCCAAAAGTCAGGGAAA  
GGGGCACTGACCTGTAGTGAAAGGCCACAGGACACAGCCTTATTACTGCTGGGGTGGGATAAGGGGAAGGAGAAG  
AGGGAGAATGGAGCAGGAGGAAAAGCAGAGTTGGTCTAGAGAGGAGGAGGGCGGGGCTGGAGGAATGTGGGGGAT  
TGAAACTAGCTCCCAGCCCCATGGGGCAGCAGCTGGGCCACAATTGCCCCCTTCCGTTTTCTAACCCCGACTCA  
GATTTACACCCACACTCTTTTTAGGTGTAAAAGATGGAGTCCACGGAGGAGGGGCAGAGCCAGGAGGCAGTG  
GGGCTGTGGGCTCAGAGCTCAGGAGTCGCCTTACCTGAGAGAGATGTTCTAGCTGAGAGGGCCTGGCCCTGGGGT  
GGGCTCCAGGAAAACGCTGGTTAGGCCTGGGATTGAGCTAACCTGAAACAAAGGTAGTAGGCAGGACCTAATGAC  
CAGAGGTTAAATCCTCATCAAGAGAGACCAGGCGGCTGGAGGACAAGCGGCTCTAACCCCTGGGGGCGGCCATGTT  
GTCCAGGCCCAGGCCCCCTCCAGGACTGTGGCTGCCTCCCCCTCCACGGCCTCCAGGGCGGCTGGCTGGAAAGCCAC  
GCGTATGCTGCCCTCTACAGGCTGCTCGGCCTCCCTGCAGCTCAGCGCAGCCAGGGCTCCAAGTGAGGCCCAGA  
AGCCCATGGGCAGGGCTGGGGGGACGAAGGGGGAACCCGGAGCACCTCCACTTCTAGGGAAGATGGACAGCGTGG  
GGGCACACCTGGGCCTCCCGGAAGCTGTGGACGAAAGGGAGAGCGGGTCCTCCAGGGCAAGGGGAACGGGAAATA  
GGTCTCCTAGGTGCCTGAAGCGCTGAGCAACCTGGGTACCCTGGTGGGGATGCAGGGAAGGCCGGGGCAGAGAAA  
GCGAAGGTCGACCCAGGGCTGTAGGAAGCCATAGGAGAGTGACCACGGGATTCCCTGAGAAACAGGGCCGGCCCC  
CCAACTTCAGGGACCCACCGCCCAATCCCCGAGAGCTGTGCGGAACCAGATGCAACCCGGCAGCCAGAGAACTCT  
CCTGGGAGGCTGTGGGTGAGCCAGGCCAACATTGGTGTCCCTGTCCCAGAGGGAGGAGCAGGCAGGAGAGAGAG  
GGGAAGGAGGTATGAATCCAGTCCCCAGGAACCTAGCTCTTTAACTCTGGGGAGTCGGATTACAGGAAACACCC  
CCAGGAGGCCAAGCCTGAAAACAGAGGGGAGGGAGGAAGGAAGGAGTCCCAGCAGGAGCACAGCCCTGGTTTCCT  
GTCCTCAGAGCTGATTCACAGGAGGAGGGGAGGTTGGGGGGCGGGAGACAAAACCACACCTCTTTTTATATAA  
GGTTTCATATTTAATTTGGTCATGGATTCAATAATACATAAGTATTTTGATC

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**FIGURE 2489**

MDSDMDYERPNVETIKCVVGDNAVGTKRLICARACNATLTQYQLLATHVPTVWAIQYRVCQEVLEERSRDVVDD  
VSVSLRLWDTFGDHHKDRRFAYGRSDVVVLCFSIANPNSLHHVKTMWYPEIKHFCPRAPVILVGCQLDLRYADLE  
AVNRARRPLARPIKPNEILPPEKGREVAKELGIPYYETSVVAQFGIKDVFDNAIRAALISRRHLQFWKSHLRNVQ  
RPLLQAPFLPPKPPPIIIVVPDPPSSSEECPAHLLDPLCADVILVLQERVRIFAHKIYLSTSSSKFYDLFLMDL  
SEGELGGPSEPGGTHPEDHQHSDQHSHHHHHHHHGRDFLLRAASFVCEVDEAGGSGPAGLRASTSDGILRGNG  
TGYPGRGRVLSSWSRAVFSIQEEMAEDPLTYKSRLMVVVKMDSSIQPGPFRAVLKYLYTGELDENERDLMHIAH  
IAELLEVFDLRMMVANILNNEAFMNQEITKAHVRRRTNRVKECLAKGTFSDVTFILDDGTISAHKPLLISSCDWM  
AAMFGGPFVESSTREVVFYTSKSCMRVLEYLYTGMFTSSPDLDMMKLIILANRLCLPHLVALTEQYTVTGLME  
ATQMMVDIDGDVLVFELEAQFHCAQLADWCLHHICTNYYNNVCRKFPRDMKAMSPENQEYFEKHRWPPVWYLKEE  
DHYQRARKEREKEDYLHLKRQPKRRWLFWNSSPSSSAASSSSPSSSSAVV

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**FIGURE 2490A**

GGTCTCAGCTGAGTCTGCTCTGATCACCCAACAAGACCTAGCTCCCCAGCAGAGAGCGGCCCCACAACAAAAGAG  
GTCCAGCCCCCTCAGAGGGATTGTGTCCACCTGGACACCATATCTCAGAAGACGGTAGAGATTGCATCTCCTGCAA  
ATATGGACAGGACTATAGCACTCACTGGAATGACCTCCTTTTCTGCTTGCGCTGCACCAGGTGTGATTAGGTGA  
AGTGGAGCTAAGTCCCTGCACCACGACCAGAAACACAGTGTGTCACTGCGAAGAAGGCACCTTCCGGGAAGAAGA  
TTCTCCTGAGATGTGCCGAAGTGCCGCACAGGGTGTCCCAGAGGGATGGTCAAGGTCCGTGATTGTACACCCTG  
GAGTGACATCGAATGTGTCCACAAAGAATCAGGTACAAAGCACAGTGGGGAAGCCCCAGCTGTGGAGGAGACCGT  
GACCTCCAGCCCAGGGACTCCTGCCTCTCCCTGTTCTCTCTCAGGCATCATCATAGGAGTCACAGTTGCAGCCGT  
AGTCTTGATTGTGGCTGTGTTTGTGCAAGTCTTTACTGTGGAAGAAAGTCCTTCCTTACCTGAAAGGCATCTG  
CTCAGGTGGTGGTGGGGACCCTGAGCGTGTGGACAGAAGCTCACAAACGACCTGGGGCTGAGGACAATGTCTCTCAA  
TGAGATCGTGAGTATCTTGACGCCACCCAGGTCCCTGAGCAGGAAATGGAAGTCCAGGAGCCAGCAGAGCCAAC  
AGGTGTCAACATGTTGTCCCCGGGGAGTCAGAGCATCTGCTGGAACCGGCAGAAGCTGAAAGGTCTCAGAGGAG  
GAGGCTGCTGGTTCAGCAAATGAAGGTGATCCCACTGAGACTCTGAGACAGTGCCTTCGATGACTTTGCAGACTT  
GGTGCCCTTTGACTCCTGGGAGCCGCTCATGAGGAAGTTGGGCCCTCATGGACAATGAGATAAAGGTGGCTAAAGC  
TGAGGCAGCGGGCCACAGGGACACCTTGACACGATGCTGATAAAGTGGGTCAACAAAACCGGGCGAGATGCCTC  
TGTCACACCCTGCTGGATGCCTTGAGACGCTGGGAGAGAGACTTGCCAAGCAGAAGATTGAGGACCCTTGT  
GAGCTCTGGAAGTTTATGTATCTAGAAGGTAATGCAGACTCTGCCATGTCTTAAGTGTGATTCTCTTCAGGAAG  
TCAGACCTTCCCTGGTTTACCTTTTTTCTGGAAGAAAGCCCAACTGGACTCCAGTCAGTAGGAAAGTGCCACAATT  
GTCACATGACCGGTACTGGAAGAAACTCTCCCATCCAACATCACCCAGTGGATGGAACATCCTGTAACCTTTTCAC  
TGCACTTGGCATTATTTTTATAAGCTGAATGTGATAATAAGGACACTATGGAAATGTCTGGATCATTCCGTTTGT  
GCGTACTTTGAGATTTGGTTTGGGATGTCAATTGTTTTACAGCACTTTTTATCCTAATGTAAATGCTTTATTTA  
TTTATTTGGGCTACATTGTAAGATCCATCTACACAGTCGTTGTCCGACTTCACTTGATACTATATGATATGAACC  
TTTTTTGGGTGGGGGGTGCAGGGCAGTTCACTCTGTCTCCAGGCTGGAGTGCAATGGTGCAATCTTGGCTCACT  
ATAGCCTTGACCTCTCAGGCTCAAGCGATTCTCCACCTCAGCCATCCAAATAGCTGGGACCACAGGTGTGCACC  
ACCACGCCCGGCTAATTTTTTTGTATTTTGTCTAGATATAGGGGCTCTCTATGTTGCTCAGGGTGGTCTCGAATTC  
CTGGACTCAAGCAGTCTGCCACCTCAGACTCCCAAAGCGGTGGAATTAGAGGCGTGAGCCCCCATGCTTGGCCT  
TACCTTTCTACTTTTTATAATTCTGTATGTTATTATTTATGAACATGAAGAACTTTAGTAAATGTACTTGTTTA  
CATAGTTATGTGAATAGATTAGATAAAACATAAAAGGAGGAGACATACAATGGGGGAAGAAGAAGTCCCTGT  
AAGATGTCACTGTCTGGGTTCCAGCCCTCCCTCAGATGTACTTTGGCTTCAATGATTGGCAACTTCTACAGGGGC  
CAGTCTTTTGAAGTGGACAACCTTACAAGTATATGAGTATTATTTATAGGTAGTTGTTTACATATGAGTCGGGAC  
CAAAGAGAAGTGGATCCACGTGAAGTCTGTGTGTGGCTGGTCCCTACCTGGGCAGTCTCATTGACCCATAGC  
CCCCATCTATGGACAGGCTGGGACAGAGGCAGATGGGTAGATCACACATAACAATAGGGTCTATGTATATCCC  
AAGTGAAGTGTAGCCCTGTTTGGGCTCAGGAGATAGAAGACAAAATCTGTCTCCACGTCTGCCATGGCATCAAG  
GGGGAAGAGTAGATGGTGCTTGAGAATGGTGTGAAATGGTTGCCATCTCAGGAGTAGATGGCCCGGCTCACTTCT  
GGTTATCTGTCAACCTGAGCCCATGAGCTGCCTTTTAGGGTACAGATTGCCTACTTGAGGACCTTGCCCGCTCTG  
TAAGCATCTGACTCATCTCAGAAATGTCAATTCTTAAACACTGTGGCAACAGGACCTAGAATGGCTGACGCATTA  
AGGTTTTCTTCTGTGTCCTGTTCTATTATTGTTTTAAGACCTCAGTAACCATTTTCAGCCTCTTTCCAGCAAACC  
CTTCTCCATAGTATTTTCACTCATGGAAGGATCATTTATGCAGGTAGTCATTCCAGGAGTTTTTGGTCTTTTCTGT  
CTCAAGGCATTGTGTGTTTTGTTCCGGGACTGGTTTTGGGTGGGACAAAGTTAGAATTGCCTGAAGATCACACATT  
CAGACTGTTGTGTCTGTGGAGTTTTAGGAGTGGGGGGTGACCTTTCTGGTCTTTGCACTTCCATCCTCTCCCACT  
TCCATCTGGCATCCACGCGTTGTCCCCTGCACTTCTGGAAGGCACAGGGTGTCTGCTGCCTCCTGGTCTTTGCCCT  
TTGCTGGGCTTCTGTGCAGGACGCTCAGCCTCAGGGCTCAGAAGGTGCCAGTCCGGTCCCAGGTCCCTTGTCCC  
TTCCACAGAGGCCTTCCTAGAAGATGCATCTAGAGTGTGAGCCTTATCAGTGTTAAGATTTTTCTTTTATTTTT  
AATTTTTTTGAGACAGAATCTCACTCTCTCGCCAGGCTGGAGTGCAACGGTACGATCTTGGCTCAGTGCAACCT  
CCGCCTCCTGGGTTCAAGCGATTCTCGTGCTCAGCCTCCGGAGTAGCTGGGATTGCAGGCACCCGCCACCACGC  
CTGGCTAATTTTTGTATTTTTAGTAGAGACGGGGTTTTACCATGTTGGTCAGGCTGGTCTCGAACTCCTGACCTC  
AGGTGATCCACCTTGGCCCTCGAAAGTGTGGGATTACAGGCGTGAGCCACCAGCCAGGCCAAGCTATTCTTTTA  
AAGTAAGCTTCTGACGACATGAAATAATTGGGGGTTTTGTTGTTTAGTTACATTAGGCTTTGCTATATCCCCAG  
GCCAAATAGCATGTGACACAGGACAGCCATAGTATAGTGTGCTCACTCGTGGTTGGTGTCTTTTCATGCTTCTGCC

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**FIGURE 2490B**

CTGTCAAAGGTCCCTATTTGAAATGTGTTATAATAACAAACAAGGAAGCACATTGTGTACAAAATACTTATGTATT  
TATGAATCCATGACCAAATTAAATATGAAACCTTATAT

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**FIGURE 2491**

CGGACGCGTGGGCAGGCAGCAGCCGGGCAGGGATGCTCCTGCGCTCCCGGGCGGCCTCGGGCCAGCCACCTGCT  
CGCCGGGGAAGAGGACACGCAGAGGAGCAGCTGGCTTGCCCGGAGTCTCCACCTTGACCCAAGCATGCAGGGC  
CCACCCCGCAGCCTCCGCGCTGGGCTCAGCCTGGACGACTTCATCCCTGGCCACCTCCAGTCCCACATAGGGTCT  
TCCTCCCGGGGACACGGGTGCCCGTGATCCGGAATGGTGGCTCCAACACCCTTAATTTCCAGTTCCACGACCCC  
GCGCCAGGACTGTGTGCAATGGGGGCTACACACCAAGACGAGATGCTTCCCAGCACCCGGACCCTGCGTGGTAT  
CAGACCTGGCCAGGCCCTGGGAGCAAGCCCTCTGCAAGCACAAAGATCCCTGCTTCCCAGCACACCCAGAAGTGG  
TCAGCCACGTGGACCAAGGACAGCAAGCGTCGGGACAAGCGCTGGGTCAAGTACGAGGGAATCGGGCCCCGTGGAC  
GAGAGCGGCATGCCCATTGCCCCCGATCCAGCGTTGACAGACCCAGAGACTGGTACCGGAGAATGTTCCAGCAG  
ATTACCCGAAAAATGCCAGACTTGACAGCTGGACTGGACCTTCGAGGAGCCACCCAGAGACCCAGGCATCTAGGA  
GCCCAGCAAAGACCTGCCACAGGCCCGGCCCGGCAACATCTTCCAGTGGAAGAAGCTGGGACCACTCTGAAGAG  
TTACCTAGAAGCACCTTCAACTACAGACCTGGAGCATTCTCCACTGTGCTGCAGCCCTCAAATCAGGTGCTCAGA  
CGCCGGGAAAAAGTAGACAATGTCTGGACGGAAGAGTCTGGAACCAAGTTCTGCAGGAACTAGAGACTGGGCAG  
AGGCCCAAGAAACCGCTGGTGGACGACCCTGGTGAGAAGCCCTCCAGCCCATTTAGGTGCTGCTGGAGAGAGAG  
CTGGCCGAGCTGAGCGCCGAGCTGGACAAGGACCTGCGGGCAATTGAGACCCGACTGCCGTCCCCCAAGAGCTCG  
CCGGCGCCCCGACGGGCCCCGGAGCAGCGGCCCGGCCCGGCCCGCCCTCAGCCTGGAGCTCCAGCTACCCACAT  
GCACCTTACCTGGGTTCGCCCCGGTCCCTGAGTCCCCACAAATGGCTGATGGAGGAAGCCCCCTTCCTAGGTGCG  
AGGGACTTTGTCTACCTTCCCTCAACCCGAGACCCTAGTGCCTCTAACGGAGGGGGCAGCCCAGCCAGGAGGGAA  
GAGAAGAAGAGAAAGGCCGCCAGGCTCAAGTTTGACTTCCAGGCGCAGTCCCCCAAGGAGCTGACTCTGCAGAAG  
GGTGACATTGTCTACATCCACAAGGAGGTGGACAAGAAGTGGCTGGAGGGAGAGCACCACGGCCGCTGGGCATC  
TTCCCTGCTAATTATGTGGAGGTGCTGCCCGCAGATGAGATCCCTAAGCCCATCAAGCCCCCGACCTACCAGGTG  
CTGGAGTATGGAGAGGCTGTGGCCCCAGTACACCTTCAAGGGGGACCTGGAGGTGGAGCTGTCTTCCGCAAGGGA  
GAGCACATCTGCCTGATCCGCAAGGTGAACGAGAAGTGGTACGAGGGACGCATCACGGGCACGGGGCGCCAAGGC  
ATATTCCCTGCCAGCTACGTGCAGGTGTCTCGTGAACCCCGGCTCCGGCTCTGTGACGACGGCCCCCAGCTCCCC  
ACGTCTCCCCGCTGACCGCTGCCGCCCCGCTCAGCCCGTACCCCGCTCCCCCTCAGCCCTGCGCAGCCAGCT  
GACCCACCGACTTGGGGGGACAGACCTCCCCCGTCGCACTGGCTTCTCCTTCCCCACCCAGGAGCCTAGACCC  
CAGACCCAGAATCTTGCCACCCCTGGTCCAGCTCTGTCCCACTCTCGAGGTCCCAGCCATCCCCCTGGACCTGGGG  
ACCTCCTCTCCTAACACCTCTCAGATACACTGGACCCCGTACCGGGCGATGTACCAGTACAGGCCCCAGAACGAA  
GACGAGCTGGAGCTGCGCGAGGGGGACAGGGTGGATGTCATGCAGCAGTGTGACGATGGCTGGTTTGTGGGTGTC  
TCCCGGAGGACCCAGAAATTCGGAACGTTCCCTGGAAATTACGTTGCCCGGGTGAGTGGTCTCCATGGCAACT  
TGGAGCCAGCCAGGATGGGGTGGGGAGCGGTGGCACTCGTGGGAGGGAGAGGACCCCGCCACATCCTCCTTCC  
CCAGGACCTGAGCTCCCAGCATCTGCAGACGACCCCCGACGCAATTCCTTCGGACCCCCCTCGAAGCCCCCTGGA  
CTGATTCCCACCCACGACTCACAGGCATTCTCCACAGCCCTTTCATTTCCTCCCCACCCCACTCCCCAAATAC  
AGAGGTCTGCTTTGAAGCGGAGACCATTTCAGGCCTTATTGAGACCAGACCCCAAGTCCCCCACTCCCATCCTG  
CTCCAGCGTTTCTCTAACAGGGACAGCTCTCCGCTTTGCCCCACGGGGTTCTCTAACAGAACAGCTTCC  
TAGCCTCGTAGAGACCAAGGCCGCCCCCGCCTGCTGGGGTTCTCTCCAGCACCCAGCTTGCTGGCTGCCCTCT  
TTGCCTTCTGGCCTCCAGCTGGGTGTGGGGGGGCGGAGCAAGGCGGGGGACAGACGCAGCACCTTCTTAGCGATC  
TAGGCCTGGCAAGAGCTCTGGCCCCAAGGCCTCCTCTTCCAGGGGCTGCCAAGTCTGGCCCTGGCCCTGGCAT  
ATCACCCCGCACTGTGGGGCCAGGCACCACTAGCCTGGCTCAAATATTCCCCAGGGAGACTGCTGTGTGCTGCCC  
GCCTGCCTGTGGCTCTCCCCAGCCCCACATCCCTCTGGAAGAGAATGTAAAATAAACCTGGACACAAGGGCC  
TTCGTGGCCTCGA



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**FIGURE 2492**

MQGPFRSLRAGLSLDDFIPGHLQSHIGSSSRGTRVPVIRNGGSNTLNFQFHDPAPRTVCNGGYTPRRDASQHPDP  
AWYQTWPGPGSKPSASTKIPASQHTQNSATWTKDSKRRDKRWVKYEGIGPVDESGMPIAPRSSVDRPRDWYRRM  
FQQIHRKMPDLQLDWTFFEEPDRHLGAQQRPAHRPGPATSSSSGRSWDHSEELPRSTFNYPGAFSTVLQPSNQ  
VLRRREKVDNVWTEESWNQFLQELETGQRPKKPLVDDPGEKPSQPIEVLLERELAELSAELDKDLRAIETRLPSP  
KSSPAPRRAPEQRPPAGPASAWSSSYPHAPYLGSARSLSPHKMADGGSPFLGRRDFVYPSSTRDPSASNGGGSPA  
RREEKKRKAARLKFDFOAQSPKELTLQKGDIVYIHKEVDKNWLEGEHHGRLGIFPANYVEVLPAD EIPKPIKPPT  
YQVLEYGEAVAQYTFKGDLEVELSFRKGEHICLIRKVNENWYEGRITGTGRQGIFPASYVQVSREPRRLCDDGP  
QLPTSPRLTAAARSARHPSSPSALRSPADPTDLGGQTSRRTGFSFPTQEPRPQTQNLGTFGPALSHSRGPSHPL  
DLGTSSPNTSQIHWTPYRAMYQYRPQNEDELELREGDRVDVMQQCDDGWFVGVSRRTQKFGTFFGNYPVAPV

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**FIGURE 2493**

ACTTCCGCCCCGGCGCGGAGACCGAAGGCTGGCGGCTGGTCGCGTTGCAGGCAACATGTCGGAAGGAAACGCCGCC  
GGCGAGCCCAGCACGCCGGGAGGGCCCCGACCTCTCCTGACTGGGGCCCCGGGGGCTCATCGGGCGGCGGCCGGCG  
CTCCCCCTCACCCCGGCGCCTTCCCTCCATCCGTTCCAGGGACCTCACCCCTCGGGGGAGTCAAGAAGAAAACC  
TTCACCCCAAATATCATCAGTCGGAAGATCAAGGAAGAGCCCAAGGAAGAAGTAACTGTCAAGAAGGAGAAGCGT  
GAAAGGGACAGAGACCGACAACGAGAGGGGCATGGACGAGGGCGAGGCCGTCCAGAAGTGATCCAGTCTCACTCC  
ATCTTTGAGCAGGGCCCAGCTGAAATGATGAAGAAAAAGGGAACCTGGGATAAGACAGTGGATGTGTCAGACATG  
GGACCTTCTCATATCATCAACATCAAAAAAGAGAAGAGAGAGACAGACGAAGAACTAAACAGATCTTGCGTATG  
CTGGAGAAGGACGATTTCCCTCGATGACCCCGCCTGAGGAACGACACTCGAAATATGCCTGTGCAGCTGCCGCTG  
GCTCACTCAGGATGGCTTTTTTAAGGAAGAAAATGACGAACCAGATGTTAAACCTTGGCTGGCTGGCCCCAAGGAA  
GAGGACATGGAGGTGGACATACCTGCTGTGAAAGTGAAAGAGGAGCCACGAGATGAGGAGGAAGAGGCCAAGATG  
AAGGCTCCTCCCAAAGCAGCCAGGAAGACTCCAGGCCTCCCGAAGGATGTATCTGTGGCAGAGCTGCTGAGGGAG  
CTGAGCCTCACCAAGGAAGAGGAAGTCTGTTTTCTGCAGCTGCCAGACACCCTCCCTGGCCAGCCACCCACCCAG  
GACATCAAGCCTATCAAGACAGAGGTGCAGGGCGAGGACGGACAGGTGGTGTCTATCAAGCAGGAGAAAGACCGA  
GAAGCCAAATTGGCAGAGAATGCTTGTACCCTGGCTGACCTGACAGAGGGTCAGGTTGGCAAGCTACTCATCCGC  
AAGTCTGGAAGGGTGCAACTCCTCTTGGGCAAGGTGACTCTGGACGTGACCATGGGAAGTGCCTGCTCCTTCCTG  
CAGGAGCTGGTGTCCGTGGGCCTTGGAGACAGTAGGACAGGGGAGATGACAGTCCTGGGACACGTGAAGCACAAA  
CTTGTATGTTCCCCTGATTTTGAATCCCTCTTGGATCACAAACACCGGTAAAATGAGCAGGTGGAGGAGGACGGC  
GCCTGTGCCACGGCTGCTGCCTGCTCCAGACATTTTGTCTTGAATCTGTGAGACCCAGAAGGGGGCCCACTGAG  
CCCACTCACTCCAGCCTTTGGCAACCATTGTTCCAGGTCCCCCAGGGCTTCCTCCCACAGCAGCTGTGAATGGCA  
CAGTGACCTTCCTGCAGCGTGGAGATGGCACATCCTTGCTGCTGGGGACTTGGCCCTGCTATTTATTTTTGTATT  
TATGTCCTAATCTCTTCCACTGATGCATCCTCCAAGGGTAGATGGGGAGGGTCTGTGTGAAGGGGCCGGCTTCTC  
TTGGTGCCTGCTGGGTGTCAGGGGCAGGAAGCGTGTGGACTGCAGCTTCTGCTGGTGCTCCCCCGTCCCTCCTGG  
AGGCAGTATAGGAGAGAGAGCAAGGATTGAGTCTGAGACTTAAGCACTCGGTCCCAGCTTGCCAGTTCCCTGGTTC  
TGTGTCCTTGGACAACTACCTAACCTTTCTGAGCCTCCTATACCTCATCCGACACAAATGGGGATGATACCTAC  
CTCCAGGGTTGGCGTGAGGATTATGGGCTATTATAGATGAAAAGTGCACAAGGCCAGAACCAGCAGGCACCTCAA  
TAAACGTTTCATGTCCTTTTTCTCT

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**FIGURE 2494**

MSEGNAAGEPSTPGGPRPLLTGARGLIGRRPAPPLTPGRLPSIRSRDLTLGGVKKKTFTPNIIISRKIKEEPKEEV  
TVKKEKREDRDRQREGHGRGRGRPEVIQSHSIFEQGPAEMMKKKGNWDKTVDVSDMGPSHIINIKKEKRETDEE  
TKQILRMLEKDDFLDDPGLRNDTRNMPVQLPLAHSGWLFKEENDEPDVKPWLAGPKEEDMEVDIPAVKVKEEPRD  
EEEEAKMKAPPKAARKTPGLPKDVSVAELLRELSLTKEEELLFLQLPDTLPGQPPTQDIKPIKTEVQGEDGQVVL  
IKQEKDREAKLAENACTLADLTEGQVGKLLIRKSGRVQLLLGKVTLDTVMTACSFLOELVSVGLGDSRTGEMTV  
LGHVKHKLVCSPDFESLLDHKHR

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**FIGURE 2495**

GCCGCTTCCCTCGCCGCCGCCCGCCAGCATGCCCGGCGTGGCCCGCCTGCCGCTGCTGCTCGGGCTGCTGCTGC  
TCCCGCGTCCCGGCCCGCCGCTGGACTTGGCCGACTACACCTATGACCTGGCGGAGGAGGACGACTCGGAGCCCC  
TCAACTACAAAGACCCCTGCAAGGCGGCTGCCCTTTCTTGGGGACATTGCCCTGGACGAAGAGGACCTGAGGGCCT  
TCCAGGTACAGCAGGCTGTGGATCTCAGACGGCACACAGCTCGTAAGTCCTCCATCAAAGCTGCAGTTCCAGGAA  
ACACTTCTACCCCCAGCTGCCAGAGCACCACGGGCAGCCTCAGAGGGGAGCCTGTGGGAGATGGAGAGGTAGAT  
CCCGTAGCCGGCGGGCGGCGACGTCCCGACCAGAGCGTGTGTGGCCCGATGGGGTCATCCCCCTTTGTCATTGGGG  
GAAACTTCACTGGTAGCCAGAGGGCAGTCTTCCGGCAGGCCATGAGGCACTGGGAGAAGCACACCTGTGTACCT  
TCCTGGAGCGCACTGACGAGGACAGCTATATTGTGTTACCTATCGACCTTGCGGGTGCTGCTCCTACGTGGGTC  
GCCGCGGCGGGGGCCCCCAGGCCATCTCCATCGGCAAGAACTGTGACAAGTTCGGCATTGTGGTCCACGAGCTGG  
GCCACGTCGTGGCTTCTGGCACGAACACACTCGGCCAGACCGGGACCGCCACGTTTCCATCGTTTCGTGAGAACA  
TCCAGCCAGGGCAGGAGTATAACTTCTGAAAGATGGAGCCTCAGGAGGTGGAGTCCCTGGGGGAGACCTATGACT  
TCGACAGCATCATGCATTACGCTCGGAACACATTCTCCAGGGGCATCTTCTGGATAACATTGTCCCCAAGTATG  
AGGTGAACGGGGTGAAACCTCCCATTGGCCAAAGGACACGGCTCAGCAAGGGGGACATTGCCCAAGCCCGCAAGC  
TTTACAAGTGCCAGCCTGTGGAGAGACCCTGCAAGACAGCACAGGCAACTTCTCCTCCCCTGAATACCCCAATG  
GCTACTCTGCTCACATGCACTGCGTGTGGCGCATCTCTGTACACCCGGGGAGAAGATCATCCTGAACTTCACGT  
CCCTGGACCTGTACCGCAGCCGCTGTGCTGGTACGACTATGTGGAGGTCCGAGATGGCTTCTGGAGGAAGGCGC  
CCCICCGAGGCCGCTTCTGCGGGTCCAAACTCCCTGAGCCTATCGTCTCCACTGACAGCCGCTCTGGGTTGAAT  
TCCGCAGCAGCAGCAATTGGGTTGGAAAGGGCTTCTTTGAGTCTACGAAGCCATCTGCGGGGGTGATGTGAAAA  
AGGACTATGGCCACATTCAATCGCCCAACTACCCAGACGATTACCGGCCAGCAAAGTCTGCATCTGGCGGATCC  
AGGTGTCTGAGGGCTTCCACGTGGGCCTCACATTCCAGTCCTTTGAGATTGAGCGCCACGACAGCTGTGCCTACG  
ACTATCTGGAGGTGCGCGACGGGCACAGTGAGAGCAGCACCCCTCATCGGGCGCTACTGTGGCTATGAGAAGCCTG  
ATGACATCAAGAGCAGTCCAGCCGCTCTGGCTCAAGTTCGTCTCTGACGGGTCCATTAACAAAGCGGGCTTTG  
CCGTCAACTTTTTCAAAGAGGTGGACGAGTGCTCTCGGCCCAACCGCGGGGGCTGTGAGCAGCGGTGCCTCAACA  
CCCTGGGCAGCTACAAGTGAGCTGTGACCCCGGTACGAGCTGGCCCCAGACAAGCGCCGCTGTGAGGCTGCTT  
GTGGCGGATTCTCACCAGCTCAACGGCTCCATCACCAGCCCGGGCTGGCCCAAGGAGTACCCCCCAACAAGA  
ACTGCATCTGGCAGCTGGTGGCCCCACCCAGTACCGCATCTCCCTGCAGTTTGACTTCTTTGAGACAGAGGGCA  
ATGATGTGTGAAGTACGACTTCTGTGGAGGTGCGCAGTGGACTCACAGCTGACTCCAAGCTGCATGGCAAGTTCT  
GTGGTTCTGAGAAGCCCAGGTTCATCACCTCCAGTACAACAACATGCGCGTGGAGTTCAAGTCCGACAACACCG  
TGTCCAAAAGGGCTTCAAGGCCCACTTCTTCTCAGAAAAGAGGCCAGCTCTGCAGCCCCCTCGGGGACGCCCCC  
ACCAGCTCAAATTCGAGTGCAGAAAAGAAACCGGACCCCCCAGTGAGGGCCTGCCAGGCCTCCCGGACCCCTTGT  
TACTCAGGAACCTCACCTTGGACGGAATGGGATGGGGCTTCGGTGCCCAACCCCCACCTCCACTCTGCCA  
TTCCGGCCACCTCCCTCTGGCCGGACAGAACTGGTGCTCTTCTCCCCACTGTGCCCGTCCGCGGACCGGGGA  
CCCTTCCCCGTGCCCTACCCCTCCATTTTGATGGTGTCTGTGACATTTCTGTTGTGAAGTAAAAGAGGGACC  
CCTGCGTCCTGC

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**FIGURE 2496**

MPGVARLP L L L L L L L L L P R P G R P L D L A D Y T Y D L A E E D D S E P L N Y K D P C K A A A F L G D I A L D E E D L R A F Q V Q Q A V D L R  
R H T A R K S S I K A A V P G N T S T P S C Q S T N G Q P Q R G A C G R W R G R S R S R R A A T S R P E R V W P D G V I P F V I G G N E T G S Q R A V  
F R Q A M R H W E K H T C V T F L E R T D E D S Y I V F T Y R P C G C C S Y V G R R G G G P Q A I S I G K N C D K F G I V V H E L G H V V G F W H E H  
T R P D R D R H V S I V R E N I Q P G Q E Y N F L K M E P Q E V E S L G E T Y D F D S I M H Y A R N T F S R G I F L D T I V P K Y E V N G V K P P I G  
Q R T R L S K G D I A Q A R K L Y K P A C G E T L Q D S T G N F S S P E Y P N G Y S A H M H C V W R I S V T P G E K I I L N F T S L D L Y R S R L C  
W Y D Y V E V R D G F W R K A P L R G R F C G S K L P E P I V S T D S R L W V E F R S S S N W V G K G F F A V Y E A I C G G D V K K D Y G H I Q S P N  
Y P D D Y R P S K V C I W R I Q V S E G F H V G L T F Q S F E I E R H D S C A Y D Y L E V R D G H S E S T L I G R Y C G Y E K P D D I K S T S S R L  
W L K F V S D G S I N K A G F A V N F F K E V D E C S R P N R G G C E Q R C L N T L G S Y K C S C D P G Y E L A P D K R R C E A A C G G F L T K L N G  
S I T S P G W P K E Y P P N K N C I W Q L V A P T Q Y R I S L Q F D F F E T E G N D V C K Y D F V E V R S G L T A D S K L H G K F C G S E K P E V I T  
S Q Y N N M R V E F K S D N T V S K K G F K A H F F S E K R P A L Q P P R G R P H Q L K F R V Q K R N R T P Q

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**FIGURE 2497**

GCCGCTTCCCTCGCCGCCGCCCGCCAGCATGCCCGGCGTGGCCCGCTGCCGCTGCTGCTCGGGCTGCTGCTGC  
TCCCGCGTCCCGGCCCGCGCTGGACTTGGCCGACTACACCTATGACCTGGCGGAGGAGGACGACTCGGAGCCCC  
TCAACTACAAAGACCCCTGCAAGGCGGCTGCCTTTCTTGGGGACATTGCCCTGGACGAAGAGGACCTGAGGGCCT  
TCCAGGTACAGCAGGCTGTGGATCTCAGACGGCACACAGCTCGTAAGTCCTCCATCAAAGCTGCAGTTCCAGGAA  
ACACTTCTACCCCCAGCTGCCAGAGCACCAACGGGCAGCCTCAGAGGGGAGCCTGTGGGAGATGGAGAGGTAGAT  
CCCGTAGCCGGCGGGCGGCGACGTCCCGACCAGAGCGTGTGTGGCCCGATGGGGTCATCCCCTTTGTCAATTGGGG  
GAAACTTCACTGGTAGCCAGAGGGCAGTCTTCCGGCAGGCCATGAGGCACTGGGAGAAGCACACCTGTGTACCT  
TCCTGGAGCGCACTGACGAGGACAGCTATATTGTGTTACCTATCGACCTTGGCGGGTGCTGCTCCTACGTGGGTC  
GCCGCGCGGGGGCCCCCAGGCCATCTCCATCGGCAAGAACTGTGACAAGTTCGGCATTGTGGTCCACGAGCTGG  
GCCAGTCTGTGGCTTCTGGCACGAACACACTCGGCCAGACCGGGACCGCCACGTTTCCATCGTTCTGTGAGAACA  
TCCAGCCAGGGCAGGAGTATAACTTCTTGAAGATGGAGCCTCAGGAGGTGGAGTCCCTGGGGGAGACCTATGACT  
TCGACAGCATCATGCATTACGCTCGGAACACATTCTCCAGGGGCATCTTCTGGATAACATTGTCCCCAAGTATG  
AGGTGAACGGGGTGAAACCTCCCATTTGGCCAAAGGACACGGCTCAGCAAGGGGGACATTGCCCAAGCCCGCAAGC  
TTTACAAGTGCCAGCCTGTGGAGAGACCCTGCAAGACAGCACAGGCAACTTCTCTCCCTGAATACCCCAATG  
GCTACTCTGCTCACATGCACTGCGTGTGGCGCATCTCTGTACACCCGGGGAGAAGATCATCCTGAACCTCACGT  
CCCTGGACCTGTACCGCAGCCGCTGTGCTGGTACGACTATGTGGAGGTCCGAGATGGCTTCTGGAGGAAGGCGC  
CCCTCCGAGGCCGCTTCTGCGGGTCCAAACTCCCTGAGCCTATCGTCTCCACTGACAGCCGCTCTGGGTGAAT  
TCCGCAGCAGCAATTGGGTTGGAAAGGGCTTCTTGCAGTCTACGAAGCCATCTGCGGGGGTGATGTGAAAA  
AGGACTATGGCCACATTCAATCGCCCAACTACCCAGACGATTACCGGCCAGCAAAGTCTGCATCTGGCGGATCC  
AGGTGTCTGAGGGCTTCCACGTGGGCCTCACATTCAGTCTTTTGTAGATTGAGCGCCACGACAGCTGTGCCTACG  
ACTATCTGGAGGTGCGCGACGGGCACAGTGAGAGCAGCACCTCATCGGGCGCTACTGTGGCTATGAGAAGCCTG  
ATGACATCAAGAGCACGTCCAGCCGCTCTGGCTCAAGTTCGTCTCTGACGGGTCCATTAACAAAGCGGGCTTTG  
CCGTCAACTTTTTCAAAGAGGTGGACGAGTGCTCTCGGCCCAACCGCGGGGGCTGTGAGCAGCGGTGCCTCAACA  
CCCTGGGCAGCTACAAGTGCACTGTGACCCCGGTACGAGCTGGCCCCAGACAAGCGCCGCTGTGAGGCTGCTT  
GTGGCGGATTCTCACCAAGCTCAACGGCTCCATCACCAGCCCGGGCTGGCCCAAGGAGTACCCCCCAACAAGA  
ACTGCATCTGGCAGCTGGTGGCCCCCACCAGTACCGCATCTCCCTGCAGTTTGACTTCTTTGAGACAGAGGGCA  
ATGATGTGTGCAAGTACGACTTCGTGGAGGTGCGCAGTGGACTCACAGCTGACTCCAAGCTGCATGGCAAGTTCT  
GTGGTTCTGAGAAGCCCAGGTTCATCCTCCCAGTACAACAACATGCGCGTGGAGTTCAAGTCCGACAACACCG  
TGTCAAAAAAGGGCTTCAAGGCCACTTCTTCTCAGTCTTGGAGGGGGCAGGGGACCGACACTCACATCTATCAG  
GCCTGGAGTTACTGCTCTGCCCCATGCCCTGGTGCACACTGTGCCCGCCCCACCCTCAGCCCTGCACGGAGACA  
CACACGCCACACGCACACACATGTGCACACACATTGCCCATCGCACAAAGAACTGCAGAGGACCCCCACTGG  
GGGCATCGAGGCTCAGCCCTCAGGGCCCGGGCATCTGACTCTGGCCCCCAGGAGGGGAGCTATTTGGACTTTT  
GGGACACCCACCGAGGAGACCCTAAGCCAAGAAGGAGAAGAAAGAGCCTGAAGACCTTCAGTCTGACCCCTGCCA  
CCTTCCGGGGCATTGTTGGCACTGTAGGAAAAGAGGCCAGCTCTGCAGCCCCCTCGGGGACGCCCCACCAGCTCA  
AATTCGAGTGCAGAAAAGAAACCGGACCCCCCAGTGAGGCCTGCCAGGCCTCCCGGACCCCTTGTTACTCAGGA  
ACCTCACCTTGGACGGAATGGGATGGGGGCTTCCGTGCCACCAACCCCCACCTCCACTCTGCCATTCCGGCCC  
ACCTCCCTCTGGCCGGACAGAAGTGGTGTCTCTTCTCCCCACTGTGCCCGTCCGCGGACCGGGGACCCCTCCCC  
GTGCCCTACCCCTCCCATTTTGATGGTGTCTGTGACATTCTCTGTTGTGAAGTAAAAGAGGGACCCCTGCGTCC  
TGC

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**FIGURE 2498**

MPGVARLP LLLGL LLLLP RPGRPLDLADYTYDLAEEDDSEPLNYKDPCKAAAF LGDIALDEEDLRAFQVQQAVDLR  
RHTARKSSIKA AVPGNTSTP SCQSTNGQPQRGACGRWRGRSRSRRAATSRPERVWPDGVIPFVIGGNFTGSQRAV  
FRQAMRHWEKHTCVTFLERTDEDSYIVFTYRPGCCSYVGRGGGPQAISIGKNCDKFGIVVHELGHVVGFWHEH  
TRPD RDRHVSIVRENIQPGQEYNFLKMEPQEVESLGETYDFDSIMHYARNTFSRGIFLDTIVPKYEVNGVKPPIG  
QRTLSKGDIAQARKLYKCPACGETLQDSTGNFSSPEYPNGYSAHMHCVWRISVTPGEKIILNFTSLDLYRSRLC  
WYDYVEVRDGFWRKAPLRGRFCGSKLPEPIVSTD SRLWVEFRSSSNWVGKFFAVYE AICGGDVKKDYGHIQSPN  
YPDDYRPSKVCIWRIQVSEGFHVGLTFQSFEIERHDS CAYDYLEVRDGHSESSTLIGRYCGYEKPDDIKSTSSRL  
WLKFVSDGSINKAGFAVNFFKEVDECSRPNRGGEQRCLNTLGSYKCSCDPGYELAPDKRRCEAACGGFLT KLNG  
SITSPGWPKEYPPNKNCIWQLVAPTQYRISLQFDF FETEGNDVCKYDFVEVRSGLTADSKLHGKFCGSEKPEVIT  
SQYNNMRVEFKSDNTVSKKGFKAHFFSVLEGAGDRHSHLSGLELLLC PHALVDTVPAPPSALHGDTHAHTH THVH  
THCP IAQETCRGPPLGASRLSPQGPGLTLAPQEGSYLDFWDTHRGDPKPRRRRKSLKTFSLTPATFRGIWAL

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**FIGURE 2499**

GCCAGCATGCCCCGGCGTGGCCCCGCTGCCGCTGCTGCTCGGGCTGCTGCTGCTCCCGCGTCCCGGCCGGCCGCTG  
GACTTGGCCGACTACACCTATGACCTGGCGGAGGAGGACGACTCGGAGCCCCCTCAACTACAAAGACCCCTGCAAG  
GCGGCTGCCTTTCTTGGGGACATTGCCCTGGACGAAGAGGACCTGAGGGCCTTCCAGGTACAGCAGGCTGTGGAT  
CTCAGACGGCACACAGCTCGTAAGTCTCCATCAAAGCTGCAGTTCCAGGAAACACTTCTACCCCCAGCTGCCAG  
AGCACCAACGGGCAGCCTCAGAGGGGAGCCTGTGGGAGATGGAGAGGTAGATCCCGTAGCCGGCGGGCGGCGACG  
TCCCGACCAGAGCGTGTGTGGCCCGATGGGGTCATCCCCCTTGTTCATTGGGGGAAACTTCACTGGTAGCCAGAGG  
GCAGTCTTCCGGCAGGCCATGAGGCACTGGGAGAAGCACACCTGTGTACCTTCTGGAGCGCACTGACGAGGAC  
AGCTATATTGTGTTACCTATCGACCTTGCGGGTGCTGCTCCTACGTGGGTGCGCGCGGGCGGGGGCCCCCAGGCC  
ATCTCCATCGGCAAGAACTGTGACAAGTTCGGCATTGTGGTCCACGAGCTGGGCCACGTGCTCGGCTTCTGGCAC  
GAACACACTCGGCCAGACCGGGACCGCCACGTTTCCATCGTTCGTGAGAACATCCAGCCAGGGCAGGAGTATAAC  
TTCTTGAAGATGGAGCCTCAGGAGGTGGAGTCCCTGGGGGAGACCTATGACTTCGACAGCATCATGCATTACGCT  
CGGAACACATTCTCCAGGGGCATCTTCTGGATAACATTGTCCCCAAGTATGAGGTGAACGGGGTGAAACCTCCC  
ATTGGCCAAAGGACACGGCTCAGCAAGGGGGACATTGCCCAAGCCCGCAAGCTTTACAAGTGCCAGCCTGTGGA  
GAGACCTGCAAGACAGCACAGGCAACTTCTCCTCCCCCTGAATACCCCAATGGCTACTCTGCTCACATGCACTGC  
GTGTGGCGCATCTCTGTACACCCGGGGAGAAGATCATCCTGAACCTTACGTCCCTGGACCTGTACCGCAGCCGC  
CTGTGCTGGTACGACTATGTGGAGGTCCGAGATGGCTTCTGGAGGAAGGCGCCCCCTCCGAGGCCGCTTCTGCGGG  
TCCAAACTCCCTGAGCCTATCGTCTCCACTGACAGCCGCTCTGGGTTGAATTCCGCAGCAGCAGCAATTGGGTT  
GGAAAGGGCTTCTTTGCAGTCTACGAAGCCATCTGCGGGGGTGATGTGAAAAAGGACTATGGCCACATTCAATCG  
CCCAACTACCCAGACGATTACCGGCCAGCAAAGTCTGCATCTGGCGGATCCAGGTGTCTGAGGGCTTCCACGTG  
GGCCTCACATTCCAGTCCTTTGAGATTGAGCGCCACGACAGCTGTGCCTACGACTATCTGGAGGTGCGCGACGGG  
CACAGTGAGAGCAGCACCCCTCATCGGGCGCTACTGTGGCTATGAGAAGCCTGATGACATCAAGAGCACGTCCAGC  
CGCCTCTGGCTCAAGTTCGTCTCTGACGGGTCCATTAACAAAGCGGGCTTTGCCGTCAACTTTTTCAAAGAGGTG  
GACGAGTGCTCTCGGCCCAACCGCGGGGGCTGTGAGCAGCGGTGCCTCAACACCCTGGGCAGCTACAAGTGCAGC  
TGTGACCCCGGGTACGAGCTGGCCCCAGACAAGCGCCGCTGTGAGGGGTGTTATGATCTACAGGTTGGGAAACCC  
CTGTTGTGGGACAGACACTGTTTCCGCCTCTCCACGCATGGTCCCGAGATGCTGGGGACAGCACTCCGAGGCTTAA

TGGCTCCAGCTCACTAGGCCGATCCTGCTGTGCCCCGAGCTGCTCCCTTTCTGACCTCCAGGACCGCCCCCT  
CCCTGAACTGCTTTCCCTGAGTCCCTTATTCCCGCTCACTCCCTCTTGGAGGACCTTGGCCTGTTTCAATTTGCAGA  
GAAGATAGAAATGGCCACACTTATGACCCCTTAGCTCCCCCACTCCTCCCTACAGGCCACCCCTGAGGACACCC  
AGGCCACCCTGCCTCCTCCCGTCCGCCCCAGAGGGACCAGACACAGGTCCCTGAGCCTTGGGGAGTCCACAGGCT  
CCCCATCTTCTCCTTACTGCATCTCAGCCACATCTCAGCCCTTCCCCATGGCAGGGGGCTCCCCGCAGACGATGC  
CACCTTCCTTGTCCCCGAGCTGCTTGTGGCGGATTCTTACCAAGCTCAACGGCTCCATCACCAGCCCGGGCTG  
GCCCCAAGGAGTACCCCCCAACAAGAACTGCATCTGGCAGCTGGTGGCCCCCACCAGTACCGCATCTCCCTGCA  
GTTTGACTTCTTTGAGACAGAGGGCAATGATGTGTGCAAGTACGACTTCGTGGAGGTGCGCAGTGGACTCACAGC  
TGACTCCAAGCTGCATGGCAAGTTCTGTGGTTCTGAGAAGCCCCGAGGTCAACCTCCAGTACAACAACATGCG  
CGTGGAGTTCAAGTCCGACAACACCGTGTCCAAAAGGGCTTCAAGGCCCACTTCTTCTCAGAAAAGAGGCCAGC  
TCTGCAGCCCCCTCGGGGACGCCCCACCAGCTCAAATTCCGAGTGCAGAAAAGAAACCGGACCCCCCAG



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**FIGURE 2500**

MPGVARLP LLLGLLLLPRPGRPLDLADYTYDLAEEDDSEPLNYKDPCKAAAF LGDIALDEEDLRAFQVQQAVDLR  
RHTARKSSIKA AVPGNTSTPSCQSTNGQPORGACGRWRGRSRSRRAATSRPERVWPDGVIPFVIGGNFTGSQRAV  
FRQAMRHWEKHTCVTFLERTDEDSYIVFTYRPGCCSYVGRGGGPQAISIGKNCDFGIVVHELGHVVGFWHEH  
TRPD RDRHVSIVRENIQPGQEYNFLKMEPQEVESLGETYDFDSIMHYARNTFSRGIFLDTIVPKYE VNGVKPPIG  
QRTLSKGDIAQARKLYKCPACGETLQDSTGNFSSPEYPNGYSAHMHCVWRISVTPGEKIILNFTSLDLYRSRLC  
WYDYVEVRDGFWRKAPLRGRFCGSKLPEPIVSTDSRLWVEFRSSSNWVGKGF FAVYEAICGGDVKKDYGHIQSPN  
YPDDYRPSKVCIWRIQVSEGFHVGLTFQSFEIERHDS CAYDYLEVRDGHSESSTLIGRYCGYEKPDDIKSTSSRL  
WLKFVSDGSINKAGFAVNFFKEVDECSRPNRGGCEQRCLNTLGSYKCS CDPGYELAPDKRRCGCGYDLQVGKPLL  
WDRHCFRLSTHGPEMLGTALRG

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**FIGURE 2501**

GCCAGCATGCCCGGCGTGGCCCCGCTGCCGCTGCTGCTCGGGCTGCTGCTGCTCCCGCGTCCCGGCCGGCCGCTG  
GACTTGGCCGACTACACCTATGACCTGGCGGAGGAGGACGACTCGGAGCCCCCTCAACTACAAAGACCCCTGCAAG  
GCGGCTGCCTTTCTTGGGGACATTGCCCTGGACGAAGAGGACCTGAGGGCCTTCCAGGTACAGCAGGCTGTGGAT  
CTCAGACGGCACACAGCTCGTAAGTCTCCATCAAAGCTGCAGTTCCAGGAAACACTTCTACCCCCAGCTGCCAG  
AGCACCAACGGGCAGCCTCAGAGGGGAGCCTGTGGGAGATGGAGAGGTAGATCCCGTAGCCGGCGGGCGGCGACG  
TCCCGACCAGAGCGTGTGTGGCCCGATGGGGTCATCCCCCTTGTCAATTGGGGGAAACTTCACTGGTAGCCAGAGG  
GCAGTCTTCCGGCAGGCCATGAGGCACTGGGAGAAACACACCTGTGTACCTTCCCTGGAGCGCACTGACGAGGAC  
AGCTATATTGTGTTACCTATCGACCTTGCGGGTGCTGCTCCTACGTGGGTGCGCGCGGCGGGGGCCCCCAGGCC  
ATCTCCATCGGCAAGAACTGTGACAAGTTCGGCATTGTGGTCCACGAGCTGGGCCACGTGCTCGGCTTCTGGCAC  
GAACACACTCGGCCAGACCGGGACCGCCACGTTTCCATCGTTCGTGAGAACATCCAGCCAGGCGTTCTCCACTCT  
TCACTGCTCCTTCTCAGCTGTGGCTCTAGAAAATGGTGCTTCTTCCCATGTTCCCTTGAGTCCCTCCACTCACCAG  
GCCCTCTGCTGGACAGGACTCTTCTCAGACCCCTCCCCATTCCCCAGGCTCCCCTTGGCTGCTCCCCGGACCCTC  
AGGGCAGGAGTATTAACTTCTGAAGATGGAGCCTCAGGAGGTGGAGTCCCTGGGGGAGACCTATGACTTCGACAG  
CATCATGCATTACGCTCGGAACACATTCTCCAGGGGCATCTTCTGGATACCATTGTCCCCAAGTATGAGGTGAA  
CGGGGTGAAACCTCCCATTTGGCCAAAGGACACGGCTCAGCAAGGGGGACATTGCCCAAGCCCCGAAGCTTTACAA  
GTGCCCAGCCTGTGGAGAGACCCTGCAAGACAGCACAGGCAACTTCTCCTCCCCTGAATACCCCAATGGCTACTC  
TGCTCACATGCACTGCGTGTGGCGCATCTCTGTACACCCGGGGAGAAGATCATCCTGAACTTACGTCCCTGGA  
CCTGTACCGCAGCCGCTGTGCTGGTACGACTATGTGGAGGTCCGAGATGGCTTCTGGAGGAAGGCGCCCCCTCCG  
AGGGCCCCAACACTGGCCAGGGATGACAACCTGGTATGGGAGCCAGGAGTCCCTGGCATCATTAGTCCCAGATAGCT  
GCATTACTCACTTGTGCGAGACTTCAGGCCGCTTCTGCGGGTCCAAACTCCCTGAGCCTATCGTCTCCACTGAC  
AGCCGCTCTGGGTGTAATTCCGCAGCAGCAGCAATTGGGTGGAAAGGGCTTCTTTGCAGTCTACGAAGCCATC  
TGCGGGGGTGATGTGAAAAAGGACTATGGCCACATTCAATCGCCCAACTACCCAGACGATTACCGGCCAGCAAA  
GTCTGCATCTGGCGGATCCAGGTGTCTGAGGGCTTCCACGTGGGCCTCACATTCCAGTCTTTGAGATTGAGCGC  
CACGACAGCTGTGCCTACGACTATCTGGAGGTGCGCGACGGGCACAGTGAGAGCAGCACCCCTCATCGGGCGCTAC  
TGTGGCTATGAGAAGCCTGATGACATCAAGAGCACGTCCAGCCGCTCTGGCTCAAGTTCGTCTCTGACGGGTCC  
ATTAACAAAGCGGGCTTTGCCGTCAACTTTTTCAAAGAGGTGGACGAGTGCTCTCGGCCCAACCGCGGGGGCTGT  
GAGCAGCGGTGCCTCAACACCCTGGGCAGCTACAAGTGCAGCTGTGACCCCGGTACGAGCTGGCCCCAGACAAG  
CGCCGCTGTGAGGCTGCTTGTGGCGGATTCTCACCAAGCTCAACGGCTCCATCACCAGCCCGGGCTGGCCCCAAG  
GAGTACCCCCCAACAAGAACTGCATCTGGCAGCTGGTGGCCCCCACCAGTACCGCATCTCCCTGCAGTTTGAC  
TTCTTTGAGACAGAGGGCAATGATGTGTGCAAGTACGACTTCGTGGAGGTGCGCAGTGGACTCACAGCTGACTCC  
AAGCTGCATGGCAAGTTCTGTGGTTCTGAGAAGCCCGAGGTCAACCTCCAGTACAACAACATGCGCGTGGAG  
TTCAAGTCCGACAACACCGTGTCCAAAAGGGCTTCAAGGCCCACTTCTTCTCAGAAAAGAGGCCAGCTCTGCAG  
CCCCCTCGGGGACGCCCCACCAGCTCAAATTCCGAGTGCAAAAAGAAACCGGACCCCCCAG

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**FIGURE 2502**

MPGVARLP LLLGL LLLPRPGRPLDLADYTYDLAEEDDSEPLNYKDPCKAAAF LGDIALDEEDLRAFQVQQAVDLR  
RHTARKSSIKA AVPGNTSTPSCQSTNGQPQRGACGRWRGRSRSRRAATSRPERVWPDGVIPFVIGGNFTGSQRAV  
FRQAMRHWEKHTCVTFLERTDEDSYIVFTYRPGCCSYVGRGGGPQAISIGKNCDKFGIVVHELGHVVGFWHEH  
TRPD RDRHVSIVRENIQPGVLHSS LLLSCGSRNGASFPCSLESSTHQALCWTGLFLRPSFPRLPLAAPRTLRA  
GV

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**FIGURE 2503**

GCAAGCCGGAGCCCTGGGGTTGGGCAGCACTCGGTTCCGTGCAACTTTCAAGTGAGTTGCGAACTCCGCCCTGTA  
GGCCGGTGCTGGTGGCCCGGCGCGCTGGAACCGCGGCGACCCGCTCCAGCGCGGGACCAGCAGCAAGGGCCGAGC  
GCCAGGTTCTCCGCGGCAGAAAGGGCGGGTGGGAGCTGTAAGTGCCTCCGGCCGCGGGGCGCGCCCGCTCCCAAGT  
CGGCTTCTCCCGCCGGGGCCGCTTTGCCCTCGGGTCTCCCCATTCTCCAGGTCCCCCTGAACTGCACAGTCGGAG  
GCCGTGGGCGGCGGGCTCTGCCTCCGCCGAGGGACAGCCGGATCGCCCCCTCTGCTTCCCGCAACTGCCCTGATCA  
CCCCCGTCCCAGCCCTTGAGTGAACGTCCTTCTGAGCGGCTTCTTGGGGTCCCTCCCCACGTCCCAAAGGCCGGC  
AAGATGGTGTCTTGATGATCTGTGCGCTGGTGGTGTGGTGTGGGATGCTGTGTCCAGCTTATGCTTCCTAT  
AAGGCTGTGAAGACCAAGAACATTCGTGAATATGTGCGGTGGATGATGTACTGGATTGTTTTGCACTCTTCATG  
GCAGCAGAGATCGTTACAGACATTTTTATCTCCTGGTTCCTTTCTACTATGAGATCAAGATGGCCTTCGTGCTG  
TGGCTGCTCTCACCTACACCAAGGGCGCCAGCCTGCTTTACCGCAAGTTTGTCCACCCGTCCCTGTCCCGCCAT  
GAGAAGGAGATCGACGCGTACATCGTGCAGGCCAAGGAGCGCAGCTACGAGACCGTGCTCAGCTTCGGGAAGCGG  
GGCCTCAACATTGCCGCCTCCGCTGCTGTGACGGCTGCCACCAAGAGTCAGGGGGCGCTGGCCGGCAGGCTGCGG  
AGCTTCTCCATGCAGGACCTGCGCTCCATCTCTGACGCACCTGCCCTGCCTACCATGACCCCTCTACCTGGAG  
GACCAGGTGTCCACCGGAGGCCACCCATTGGGTACCGGGCCGGGGCCCTGCAGGACAGCGACACCGAGGATGAG  
TGTTGGTCAGATACTGAGGCAGTCCCCCGGGCGCCAGCCCGGCCCGGAGAGAAGCCCTAATCCGCAGCCAGAGC  
CTGCGTGTGGTCAAGAGGAAGCCACCGGTGCGGGAGGGCACCTCGCGCTCCCTGAAGGTTGGACGAGGAAAAAG  
ACTGTGCCCTCAGACGTGGACAGCTAGGGTCTGCTGCATCTGCCCCCTTCTTACCTCGTGCCCTGCAGGGCTCCA  
GGGCTATTTGGAGGGACCTTGGGCTGCACATCTGGCCTGCCTGCACCAGCTGCCTGGGCCCCACCTCCTGACTC  
CTGCTGATGGTTAAGGGCCGGGAGCAGATGCTGCCAAGGCCACATGCAGGGATGCACCCACAATGTACCAAAGCA  
GGCTGGGCCCAGGGTTCTATTTATTGCCTTGCTCTGCCCTCTCCCTTCCCCGGTTGTGGGACAAGAGCCCTCCCT  
GAACCCCTGCAACCCTCCCTGAACCCCTGCAAATGAAACCAAACGTCCACCTGGGTGTGTTTATTCTTCTCTGTC  
CTTCAAAGTACTTGATAGCCTTTTATAAGGCCTGGCACATGTGTCCTGGTTGTGTGTGTGTGTGTTGGTGAGTGA  
GGTCAGGTTTGCAGTGTGTTTGATAAATAAATACATAAAGGGGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAA

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**FIGURE 2504**

MVSWMICRLVVLVFGMLCPAYASYKAVKTKNIREYVRWMMYWIVFALFMAAEIVTDIFISWFPFYIEIKMAFVLW  
LLSPYTKGASLLYRKFFVHPSLSRHEKEIDAYIVQAKERSYETVLSFGKRGLNIAASAQVQAATKSQALAGRLRS  
FSMQDLRSISDAPAPAYHDPLYLEDQVSHRRPPIGYRAGGLQSDTEDECWSDTEAVPRAPARPREKPLIRSQSL  
RVVKRKPPVREGTSRSLKVRTRKKTVPDSDVS

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**FIGURE 2505**

GACTGCAATGTGCCGATCTTAGCTGCTGCCTGAGAGGATGTCTGGGGTGTCCGAGCCCCGTGAGTCGAGTAAAGTT  
GGGCACGTTACGCCGGCCTGAAGGCCCTGCAGAGCCCATGGTGGTGGTACCAGTAGATGTGGAAAAGGAGGACGT  
GCGTATCCTCAAGGTCTGCTTCTATAGCAACAGCTTCAATCCTGGGAAAACTTCAAACCTGGTCAAATGCACTGT  
CCAGACGGAGATCCGGGAGATCATCACCTCCATCCTGCTGAGCGGGCGGATCGGGCCCCAACATCCGGTTGGCTGA  
GTGCTATGGGCTGAGGCTGAAGCACATGAAGTCCGATGAGATCCACTGGCTGCACCCACAGATGACGGTGGGTGA  
GGTGCAGGACAAGTATGAGTGTCTGCACGTGGAAGCCGAGTGGAGGTATGACCTTCAAATCCGCTACTTGCCAGA  
AGACTTCATGGAGAGCCTGAAGGAGGACAGGACCAGCTGCTCTATTTTTACCAACAGCTCCGGAACGACTACAT  
GCAGCGCTACGCCAGCAAGGTGAGCGAGGGCATGGCCCTGCAGCTGGGCTGCCTGGAGCTCAGGCGGTTCTTCAA  
GGATATGCCCCACAATGCACTTGACAAGAAGTCCAACCTTCGAGCTCCTAGAAAAGGAAGTGGGGCTGGACTTGTT  
TTTCCCAAAGCAGATGCAGGAGAACTTAAAGCCCCAACAGTTCGGAAGATGATCCAGCAGACCTTCCAGCAGTA  
CGCCTCGCTCAGGGAGGAGGAGTGCCTCATGAAGTTCCTCAACACTCTCGCCGGCTTCGCCAACATCGACCAGGA  
GACCTACCGCTGTGAACTCATTCAAGGATGGAACATTACTGTGGACCTGGTCATTGGCCCTAAAGGGATCCGCCA  
GCTGACTAGTCAGGACGCAAGCCCACCTGCCTGGCCGAGTTCAAGCAGATCAGGTCCATCAGGTGCCTCCCGCT  
GGAGGAGGGCCAGGCAGTACTTCAGCTGGGCATTGAAGGTGCCCCCAGGCCTTGTCATCAAAACCTCATCCCT  
AGCAGAGGCTGAGAACATGGCTGACCTCATAGACGGCTACTGCCGGCTGCAGGGTGAGCACCAAGGCTCTCTCAT  
CATCCATCCTAGGAAAGATGGTGAGAAGCGGAACAGCCTGCCCCAGATCCCCATGCTAAACCTGGAGGCCCGGCG  
GTCCCACCTCTCAGAGAGCTGCAGCATAGAGTCAGACATCTACGCAGAGATTCCCGACGAAACCTGCGAAGGCC  
CGGAGGTCCACAGTATGGCATTGCCCGTGAAGATGTGGTCTGAATCGTATTCTTGGGGAAGGCTTTTTTGGGGA  
GGTCTATGAAGGTGTCTACACAAATCACAAAGGGGAGAAAATCAATGTAGCTGTCAAGACCTGCAAGAAAGACTG  
CACTCTGGACAACAAGGAGAAGTTTCATGAGCGAGGCAGTGATCATGAAGAACCTCGACCACCCGACATCGTGAA  
GCTGATCGGCATCATTGAAGAGGAGCCACCTGGATCATCATGGAATTGTATCCCTATGGGGAGCTGGGCCACTA  
CCTGGAGCGGAACAAGAACTCCCTGAAGGTGCTCACCCCTCGTGCTGTACTIONACTGCAGATATGCAAAGCCATGGC  
CTACCTGGAGAGCATCAACTGCGTGACAGGGACATTGCTGTCCGGAACATCCTGGTGGCCCTCCCTGAGTGTGT  
GAAGCTGGGGGACTTTGGTCTTTCCCGGTACATTGAGGACGAGGACTATTACAAAGCCTCTGTGACTCGTCTCCC  
CATCAAATGGATGTCCCCAGAGTCCATTAACTTCCGACGCTTCACGACAGCCAGTGACGTCTGGATGTTCCGCGT  
GTGCATGTGGGAGATCCTGAGCTTTGGGAAGCAGCCCTTCTTCTGGCTGGAGAACAAGGATGTCATCGGGGTGCT  
GGAGAAAGGAGACCGGCTGCCAAGCCTGATCTCTGTCCACCGGTCCTTTATACCCTCATGACCCGCTGCTGGGA  
CTACGACCCCAAGTACCGGCCCCGCTTACCCGAGCTGGTGTGCAGCCTCAGTGACGTTTATCAGATGGAGAAGGA  
CATTGCCATGGAGCAAGAGAGGAATGCTCGCTACCGAACCCCCAAAATCTTGGAGCCCACAGCCTTCCAGGAACC  
CCCACCCAAGCCCAGCCGACCTAAGTACAGACCCCCCTCCGCAAACCAACCTCCTGGCTCCAAAGCTGCAGTTCCA  
GGTTCCTGAGGGTCTGTGTGCCAGCTCTCCTACGCTCACCAGCCCTATGGAGTATCCATCTCCCGTTAACTCACT  
GCACACCCCACTCTCCACCGGCACAATGTCTTCAAACGCCACAGCATGCGGGAGGAGGACTTCATCCAACCCAG  
CAGCCGAGAAGAGGCCAGCAGCTGTGGGAGGCTGAAAAGGTCAAATGCGGCAAATCCTGGACAAACAGCAGAA  
GCAGATGGTGGAGGACTACCAGTGGCTCAGGCAGGAGGAGAAGTCCCTGGACCCCATGGTTTATATGAATGATAA  
GTCCCCATTGACGCCAGAGAAGGAGGTGCGCTACCTGGAGTTCACAGGGCCCCACAGAAGCCCCCGAGGCTGGG  
CGCACAGTCCATCCAGCCCACAGCTAACCTGGACCGGACTGATGACCTGGTGTACCTCAATGTATGGAGCTGGT  
GCGGGCCGTGCTGGAGCTCAAGAATGAGCTCTGTGAGCTGCCCCCGAGGGCTACGTGGTGGTGGTGAAGAATGT  
GGGGCTGACCCTGCGGAAGCTCATCGGGAGCGTGGATGATCTCCTGCCTTCCTTGCCGTCATCTTACGGACAGA  
GATCGAGGGCACCCAGAACTGCTCAACAAAGACCTGGCAGAGCTCATCAACAAGATGCGGGCTGGCACAGCAGAA  
CGCCGTGACCTCCCTAAGTGAGGAGTGCAAGAGGCAGATGCTGACGGCTTCACACACCCCTGGCTGTGGACGCCAA  
GAACCTGCTCGACGCTGTGGACCAGGCCAAGGTTCTGGCCAATCTGGCCCCACCCACCTGCAGAGTGACGGAGGGT  
GGGGGCCACCTGCCTGCGTCTTCCGCCCCCTGCCTGCCATGTACCTCCCTGCCTTGCTGTTGGTCATGTGGGTCT  
TCCAGGGGGAAGGCCAAGGGGAGTCACCTTCCCTTGCCACTTTGCACGACGCCCTCTCCCCACCCCTACCCCTGG  
CTGTACTGCTCAGGCTGCAGCTGGACAGAGGGGACTCTGGGCTATGGACACAGGGTGACGGTGACAAAGATGGCT  
CAGAGGGGGACTGCTGCTGCCTGGCCACTGCTCCCTAAGCCAGCCT

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**FIGURE 2506**

GAATTCCGCCGCTGACCGAGGCGTGCAAAGACTCCAGAATTGGAGGCATGATGAAGACTCTGCTGCTGTTTGTGG  
GGCTGCTGCTGACCTGGGAGAGTGGGCAGGTCCTGGGGGACCAGACGGTCTCAGACAATGAGCTCCAGGAAATGT  
CCAATCAGGGAAGTAAGTACGTCAATAAGGAAATTCAAATGCTGTCAACGGGGTGAAACAGATAAAGACTCTCA  
TAGAAAAAACAAACGAAGAGCGCAAGACACTGCTCAGCAACCTAGAAGAAGCCAAGAAGAAGAGAGGATGCCC  
TAAATGAGACCAGGGAATCAGAGACAAAGCTGAAGGAGCTCCCAGGAGTGTGCAATGAGACCATGATGGCCCTCT  
GGGAAGAGTGTAAAGCCCTGCCTGAAACAGACCTGCATGAAGTTCTACGCACGCGTCTGCAGAAGTGGCTCAGGCC  
TGGTTGGCCGCCAGCTTGAGGAGTTCCTGAACCAGAGCTCGCCCTTCTACTTCTGGATGAATGGTGACCGCATCG  
ACTCCCTGCTGGAGAACGACCGGCAGCAGACGCACATGCTGGATGTCATGCAGGACCACTTCAGCCGCGCGTCCA  
GCATCATAGACGAGCTCTTCCAGGACAGGTTCTTCAACCGGGAGCCCCAGGATACCTACCACTACCTGCCCTTCA  
GCCTGCCCCACCGGAGGCCTCACTTCTTCTTCCCAAGTCCCGCATCGTCCGCAGCTTGATGCCCTTCTCTCCGT  
ACGAGCCCCCTGAACTTCCACGCCATGTTCCAGCCCTTCCTTGAGATGATACACGAGGCTCAGCAGGCCATGGACA  
TCCACTTCCACAGCCCGCCTTCCAGCACCCGCCAACAGAATTCATACGAGAAGGCGACGATGACCGGACTGTGT  
GCCGGGAGATCCGCCACAACCTCCACGGGCTGCCTGCGGATGAAGGACCAGTGTGACAAGTGCCGGGAGATCTTGT  
CTGTGGACTGTTCCACCAACAACCCCTCCCAGGCTAAGCTGCGGGCGGGAGCTCGACGAATCCCTCCAGGTGCTG  
AGAGGTTGACCAGGAAATACAACGAGCTGCTAAAGTCCTACCAGTGGAAGATGCTCAACACCTCCTCCTTGCTGG  
AGCAGCTGAACGAGCAGTTTAACTGGGTGTCCCGGCTGGCAAACCTCACGCAAGGCGAAGACCAGTACTATCTGC  
GGGTCACCACGGTGGCTTCCACACTTCTGACTCGGACGTTCTTCCGGTGTCACTGAGGTGGTCTGTAAGCTCT  
TTGACTCTGATCCCATCACTGTGACGGTCCCTGTAGAAGTCTCCAGGAAGAACCCTAAATTTATGGAGACCGTGG  
CGGAGAAAGCGCTGCAGGAATACCGCAAAAAGCACCGGGAGGAGTGAGATGTGGATGTTGCTTTTGCACCTTACG  
GGGGCATCTTGAGTCCAGCTCCCCCAAGATGAGCTGCAGCCCCCAGAGAGAGCTCTGCACGTCACCAAGTAAC  
CAGGCCCCAGCCTCCAGGCCCCCAACTCCGCCCAGCCTCTCCCGCTCTGGATCCTGCACTCTAACACTCGACTC  
TGCTGCTCATGGGAAGAACAGAATTGCTCCTGCATGCAACTAATTCAATAAACTGTCTTGTGAGCTGAAAAAA  
AAAAAAAAAAAAAAAAAAGGAATTC

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**FIGURE 2507**

MMKTLLLFVGLLLTWESGQVLGDQTVSDNELQEMSNQGSKYVNKEIQNAVNGVKQIKTLIEKTNEERKTLLSNLE  
EAKKKKEDALNETRESETKLKELPGVCNETMMALWEECKPCLKQTCMKFYARVCRSGSGLVGRQLEEF LNQSSPF  
YFWMNGDRIDSLEND RQQTHMLDVMQDHFSRASSIIDELFQDRFFTREPQDTYHYLPFSLPHRRPHFFFPKSRI  
VRSLMPFSPYEPLNFHAMFQPFLEMIHEAQQAMD IHFHSPAFOHPPT E F IREGDDDR TVCREIRHNSTGCLRMKD  
QCDKCREILSVDCSTNNPSQAKLRRELD E SLQVAERLTRKYNELLKSYQWKMLNTSSLLEQLNEQFNWVSRLANL  
TQGEDQYYLRVTTVASHTSDSDVPSGVTEVVVKLFDSDFITVTVPVEVSRKNPKFMETVAEKALQEYRKKHREE



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**FIGURE 2508**

ATAGTGACAAGTTTGGGAAGAAGGTCCAGCTATGGAGGAAGTTCATATGGGAATAGTACTAACAATGTCCCAGCAT  
CTTCTCTACAGCTACAGCTTCCACACAGACGCAGCATTTCGGGAATGTCCTCCCGTCACCTAGCAACAGTTATGACA  
CTTCCCCACAGCCTTGCCTACCAATCAAAATGGGAGGGAGAATAATGAGCGATTATCTACATCCAATGGAAAGA  
TGTCACCAACTCGCTACCATGCAAACAGCATGGGTGAGAGGTATACAGTTTTGAAGCCTCAGAAGAGGACCTAG  
ATGTAGATGATAAAGTGGGAAGAATTAATGAGGAGGGACAGCAGTGTGATAAAAGAGGAAATCAAAGCCTTTCTTG  
CCAATCGGAGGATTTCCCAAGCAGTTGTTGCACAGGTAACAGGTATCAGTCAGAGCCGGATCTCTCATTGGCTGT  
TGCAGCAGGGATCAGACCTGAGTGAACAGAAGAAAAGAGCATTTTACCGATGGTATCAACTTGAGAAGACAAACC  
CTGGCGCTACACTAAGTATGAGACCAGCCCCATTCCAATAGAGGACCCTGAATGGAGACAAACGCCTCCCCCAG  
TCTCTGCCACATCTGGTACTTTCCGACTGCGACGAGGGAGTCGATTTACCTGGAGAAAGGAGTGCCTGGCTGTTA  
TGGAAAGTTACTTCAATGAGAATCAATACCCAGATGAAGCAAAGAGGGAAGAAATTGCAAACGCTTGCAATGCAG  
TTATACAGAAGCCAGGCAAAAAGCTGTCAGATCTGGAAAGAGTTACCTCCCTGAAAGTATATAATTGGTTTGCTA  
ACAGAAGGAAGGAGATCAAGAGGAGAGCCAATATTGAAGCAGCAATCCTGGAGAGTCATGGGATAGATGTGCAGA  
GTCCAGGAGGCCACTCAAACAGTGATGATGTGCGACGGGAATGACTACTCTGAGCAGGATGACAGTACGAGCCATA  
GTGACCACCAAGACCCCATCTCATTAGCTGTGGAAATGGCAGCAGTCAACCACACTATCTTGGCATTGGCCCGAC  
AAGGAGCCAACGAAATCAAGACAGAGGCCCTGGATGATGACTGATCAGGGAGGTTAAACATGACAAGTTAACTTA  
GTTTAGACGTAGCACCTTAGCAGACTTTCCCTCGGTCCTTAACATGTGTTCTTACAGTATAACTTGCAGTTTCTTG  
TATGTAGGTAGCTGTTAGGGTCTTGTCTGTGAAGATGGCATGGTGCCCTCAGCCTTTGCATATACTCTCTCAG  
TATTAACCTCCAGTAAATAATAACCAACCAACCAACCAAACTTCCCTCTCCCAGCCCCGAGGCTAGAAAA  
TCTTGCTGCTCCGTCTTAGCATTCCAAGAGAGTGCTTCCAGGTATTTAGATAGCCCTCAGTTCTCAAATATTAGA  
CTACGTGTAATACTTGGGTACCTTTAGATTCTTGTAACACTAGTCTGTACTCCCTTTTCCCTCCCCAAGACTGA  
TAGGATGCAAGCTGAGGTGCTGGCACAGGAATGACAGACACCATTGTTGGGAGTATCCACAGAGTCAAAGGAACAC  
TAGAATCCCCACCTCAGCGTGAGGATAATTGATTTCAGCTGCAATAAGCCGTGCCTCATTATAGCCACACTGTG  
GCTAGATTATACTTCTTTGGGTGCTGTGCTAAGAAATGTCAATGGAAAAAGCCGATCTCAGATTTTGTGTTGAAGTT  
AACATGCCTGACACAGACATCCTTTCCCTCTCACAAGCTGTGTGACTTAGTAGATAAAATACTGCCTTCTGCCTTT  
GGGACCATGATTAAAAACAAAGACAAAAACCAAAAGTCATTAAAAA

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**FIGURE 2509**

MSPSPSNSYDTSPQPCTTNQNGRENNERLSTSN GKMSPTRYHANS MGQRSYSFEASEEDLDVDDKVEELMRRDSS  
VIKEEIKAF LANRRISQAVVAQVTGISQSRISHWLLQQGSDLSEQKKRAF YRWYQLEKTNPGATLSMRPAPIPIE  
DPEWRQT PPPVSATSGTFR LRGRS RFTWRKECLAVMESYFNENQYPDEAKREEIANACNAVIQPGKKLSDLERV  
TSLKVYNWFANRRKEIKRRANIEAAI LESHGIDVQSPGGHSNSDDVDGNDYSEQDDSTSHSDHQDPISLAVEMAA  
VNHTILALARQGANEIKTEALDDD

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**FIGURE 2510**

AGGTGGCGGAGATTGCACCGGAAGACGCTTCCTGGGTTTGAGGAGTTCAGTGACTGCTATTGAACCACCAAAAGT  
CCATTATGAAACTGTATTGCCTGTCAGGGCACCCAACCTTACCATGCAATGTGCTCAAATTCAAATCAACCACCA  
TTATGTTGGACTGCGGACTGGACATGACTTCTACCCTCAATTTTCCTTTCCTTTGCCACTTGTTCAAAGTCCCAGGC  
TGTCCAATCTTCCTGGCTGGTCCCTGAAGGATGGAATGCTTTCTTGGACAAGGAGCTAAAGGAGTGCTCGGGTC  
ATGTATTTGTGGATTCTGTGCCGGAATTCTGTTTACCAGAGACGGAGCTAATAGATCTGTCTACAGTAGATGTGA  
TTCTCATCTCTAACTATCACTGTATGATGGCGCTGCCATACATCACCGAGCACACCGGCTTCACAGGCACAGTGT  
ATGCCACGGAACCCACCGTCCAGATCGGCAGGCTTCTCATGGAAGAGCTGGTGAATTTCAATTGAAAGAGTGCCAA  
AGGCTCAGTCTGCCTCCTTGTGGAAGAATAAGGACATTAGAGGCTGTTACCTTCTCCTCTCAAGGATGCAGTGG  
AAGTCTCAACCTGGAGAAGATGCTATACAATGCAAGAGGTGAAGTCTGCCCTTAGTAAAAATCCAGCTGGTGGGAT  
ATTCTCAGAAAATTGAGCTTTTTTGGTGCGGTCCAGGTGACTCCTCTGAGCTCTGGCTATGCCCTTGGGAGCTCCA  
ACTGGATCATCCAGTCTCATTACGAGAAAGTGTCTTATGTCTCTGGATCCTCCTTGCTTACCACACACCCCCAGC  
CCATGGACCAAGCTTCTCTCAAAAACAGCGATGTTCTTGTCTTGACAGGGCTTACCCAGATCCCCACTGCAAACC  
CAGATGGAATGGTGGGAGAGTTCTGCAGCAACCTAGCTCTGACAGTCCGGAATGGAGGAAACGTGTGGTTCCCT  
GCTACCCTTCTGGAGTGATCTATGACCTCCTGGAGTGCCTATATCAGTACATCGACTCAGCCGGGCTTTCCAGCG  
CCCCCTCTACTTCTATCTCCCCCTGTGGCCAACAGTTCAGTGGAGTTTTCCAGATCTTTGCTGAGTGGCTTTGTC  
ACAACAAACAGAGTAAGGTGTATCTTCCAGAACCACCTTTTCTCATGCAGAGCTCATTAGACCAATAAGCTGA  
AGCACTACCCCAGCATCCACGGAGACTTCAGCAACGACTTTAGACAGCCCTGTGTGGTGTTCACCGGGCACCTT  
CCCTCCGCTTCGGGGACGTGGTCCACTTCATGGAGCTCTGGGGAAAATCTAGTCTCAATACCGTCATATTCACGG  
AACCAGACTTCTCCTACCTGGAAGCCCTGGCTCCTTACCAGCCGCTGGCCATGAAATGCATCTACTGCCCCATCG  
ACACCCGGCTGAACCTTCATCCAGGTGTCAAAGCTGCTTAAAGAAGTGCAGCCCCTGCACGTGGTGTGTCCTGAGC  
AGTACACTCAGCCGCCCCCAGCCAGTCCACAGGATGGACCTCATGATCGACTGCCAGCCCCCGCCATGTCCT  
ATCGGCGGGCTGAGGTTCTCGCCCTGCCCTTCAAACGTCGGTACGAGAAGATCGAGATCATGCCAGAGCTCGCAG  
ATTCAGTGGTGGCCATGGAGATCAAGCCTGGCATCTCCTTGGCAACTGTCTCGGCCGTGCTGCACACCAAAGATA  
ACAAGCACTTGCTTCAGCCCCCTCCTCGGCCCGCCCAGCCACGAGCGGGAAGAAGAGAAAGCGGGTGAGCGATG  
ACGTACCAGACTGCAAAGTCTGAAGCCTTTGTTGAGCGGTTCCATCCCTGTGGAGCAGTTTCGTGCAGACCCTGG  
AGAAGCATGGCTTCAGTGATATTAAGGTGGAGGACACAGCCAAGGGCCATATCGTCCTGCTCCAGGAGGCTGAGA  
CGCTCATCCAGATTGAAGAAGACTCGACCCATATCATCTGCGACAATGACGAGATGCTCAGAGTGCGACTGCGGG  
ACCTTGTCTCAAATTCTTACAGAAGTTCTTGAGTGGGCCATCTGAGCTACTTCCCTGAAATCCTGCAGTCCCTCA  
CTGGCTGCCCTCACAAGCCACCTGAGGAGTGGCATGAGAGGCCATTAAGTGTGTCTTTGTGGTGTCTCTGGCTT  
AAGGAGTGAAGAGGTGGCTCTTGAGGGAATGGTCTGGACTTATCCCAGCACTGTTTCAGGCAAGAACTTTCCC  
TTTCAACTTCAGGCTCATTTTCTTCTCAACTCTGGCTCTCTCAAGGAGCTGGAGGGTGACAGAAGTGGGACAGGA  
GAAGTTTTCCAAGAGGTTTCATGGGAGGCGGAGGTGACTGGCTGGCTGTCTTGATCAGTCCCAGGCCTCGGCCAG  
GGGAGCCAGCCTTTGGTTTCGTTTACTTGCTACAGTGCTGTACGCAATAAGATGATGATCCCAAAATATGGTAA  
AGTGAACCCATCTGTCTGCATTTTCTACTCTGAGCCCATTTGTTAATAAACACTTATTTTTATAT

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**FIGURE 2511**

MKLYCLSGHPTLPCNVLFKFKSTTIMLDCGLDMTSTLNFLLPLVQSPRLSNLPGWSLKDGNFLDKELKECSGHV  
FVDSVPEFCLPETELIDLSTVDVILISNYHCMMALPYITEHTGFTGTVYATEFTVQIGRLLMEELVNFIERVPA  
QSASLWKNKDIQRLLPSPKDAVEVSTWRRCYTMQEVNSALSQIQLVGYSQKIELFGAVQVTPPLSSGYALGSSNW  
IIQSHYEKVSIVSGSSLLTTHPQPMQASLKNSDVLVLTGLTQIPTANPDGMVGEFCSNLALTVRNGGNVLVPCY  
PSGVIYDLLECLYQYIDSAGLSSAPLYFISPVANSSLEFSQIFAEWLCHNKQSKVYLPEPPFPHAELIQTNKLKH  
YPSIHGDFSNDFRQPCVVFTGHPSLRFGDVVHFMELWGKSSLNTVIFTEPDFSYLEALAPYQPLAMKCIYCPIDT  
RLNFIQVSKLLKEVQPLHVVCPEQYTQPPPAQSHRMDLMIDCQPPAMSYRRAEVLALPFKRRYEKIEIMPELADS  
LVPMEIKPGISLATVSAVLHTKDNKHLQPPPRPAQPTSGKKRKRVSDDVPDCKVLKPLLSSGSIPVEQFVQTLEK  
HGFSDIKVEDTAKGHIVLLQEAETLIQIEEDSTHIIICDNDEMLRVRLRDLVLKFLQKF

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**FIGURE 2512**

CTGCACAGGGAGTTTGTCTTGTGCAAACAATTTCCAAGGCAGCGTTTTCTTCCCTGCCTGGGAGTGCAGGGGCTCA  
GCGCCTTCACTTTTGGAACTGACTCAGAGACCTAAAGAAGCCCACCTGGCCAGCGGGAAGGGGGGCCGCCGCCGCC  
TCCCGGTTTTTGGGCAGCCCTGGCCAGCTCCCTGTGGCCTTGGAGGACTTCCACCGGGCAGGCGTTCCCATGATGC  
CAGGCTACCAGGCGCGGGGGATTCTCTGCAGGCCGGCGCTGCTTTTCTTAGAACCCCTTTCTAGAAAAGTACACC  
TGGAGGTTTTTGTCTCAAAGAGAGGAGAGGCAGCAGCATGGCGAGTGTCTGTCCCGACGCCTTGGAAAAGCGGTCC  
CTCTGGGAGCCCGGGTGTGGGACCCAGTGCCCTCGGAGGGGCCCTCGGCTGCCCCACCCCTCGGAGCCACTGCTA  
GAAGGGGCCGCTCCCCAGCCTTTCACCACCTCTGATGACACCCCTGCCAGGAGCAGCCCAAGGAAGTCCTTAAG  
GCTCCAGCACCTCGGGCCTTCAGCAGGTGGCCTTTCAGCCTGGGCAGAAGGTTTATGTGTGGTACGGGGGTCAA  
GAGTGCACAGGACTGGTGGAGCAGCACAGCTGGATGGAGGGTCAGGTGACCGTCTGGCTGCTGGAGCAGAAGCTG  
CAGGTCTGCTGCAGGGTGGAGGAGGTGTGGCTGGCAGAGCTGCAGGGCCCCTGTCCCCAGGCACCAACCCCTGGAG  
CCCGAGCCCAGGCCCTGGCCTACAGGCCCGTCTCCAGGAACATCGATGTCCAAAGAGGAAGTCGGACGCAGTG  
GAAATGGATGAGATGATGGCGGCCATGGTGTGACGTCCCTGTCTGCAGCCCTGTTGTACAGAGTCTCTCCGGG  
ACCGAGGCCAACTTCTCTGCTTCCCGTGC GGCCCTGCGACCCATGGAAGGAGAGTGGTGACATCTCGGACAGCGGC  
AGCAGCACTACCAGCGGTCACTGGAGTGGGAGCAGTGGTGTCTCCACCCCTCGCCCCCCCCACCCCAAGGCCAGC  
CCCAAGTATTTGGGGGATGCTTTTGGTTCTCCCCAACTGATCATGGCTTTGAGACCGATCTGACCCCTTTCCTG  
CTGGACGAACCAGCTCCACGAAAAAGAAAGAACTCTGTGAAGGTGATGTACAAGTGCTGTGGCCAACTGTGGC  
AAAGTTCTGCGCTCCATTGTGGGCATCAAACGACACGTCAAAGCCCTCCATCTGGGGGACACAGTGGACTCTGAT  
CAGTTCAAGCGGGAGGAGGATTTCTACTACACAGAGGTGCAGCTGAAGGAGGAATCTGCTGCTGCTGCTGCTGCT  
GCTGCCGCAGGCACCCAGTCCCTGGGACTCCCACCTCCGAGCCAGCTCCCACCCCAAGCATGACTGGCCTGCCT  
CTGTCTGCTCTTCCACCACCTCTGCACAAAGCCAGTCTCCGGCCAGAACATCTGGCCCCGAGTCTCTCCCTG  
CCCTCAGGGGCTCTCAGCAAGTCAGTCTCTGGGTCTTCTGGCACATTTCAGGCAGATCATGCATACCAGGCTCTG  
CCATCCTTCCAGATCCCAGTCTCACCACACATCTACACCAGTGTGAGCTGGGCTGCTGCCCCCTCCGCCGCTGC  
TCTCTCTCTCCGGTCCGGAGCCGGTCTGCTAAGCTTCAGCGAGCCCCAGCAGCCAGCACCTGCGATGAAATCTCAT  
CTGATCGTCACTTCTCCACCCCGGGCCAGAGTGGTGCCAGGAAAGCCCGAGGGGAGGCTAAGAAGTGCCGCAAG  
GTGTATGGCATCGAGCACCGGGACAGTGGTGCACGGCGTGCCGGTGAAGAAGGCCTGCCAGCGCTTTCTGGAC  
TGAGCTGTGCTGCAGTTCTACTCTGTTCTTGGCCCTGCCGGCAGCCACTGACAAGAGGCCAGTGTGTACCAGC  
CCTCAGCAGAAACCGAAAGAGAAAGAACGGAAACACGGAGTTTGGGCTCTGTTGGCTAAGGTGTAACACTTAAAG  
CAATTTTCTCCCATTTGTGCGAACATTTTATTTTTTAAAAAAA

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**FIGURE 2513**

MASVLSRRLGKRSLLGARVLGPSASEGPSAAPPSEPLLEGAAPQPFTTSDDTPCQEQPKEVLKAPSTSGLQQVAF  
QPGQKVYVWYGGQECTGLVEQHSWMEGQVTVWLLEQKLQVCCRVEEVWLAELQGPCPQAPPLEPGAQALAYRPVS  
RNIDVPKRKSDAVEMDEMMAAMVLTSLSLSCSPVVQSPPGTEANFSASRAACDPWKESGDISDSGSSTTSGHWSGSS  
GVSTPSPPHPQASPKYLGDAFGSPQTDHGFETDPDPFLLEPAPRKRKNSVKVMYKCLWPNCGKVLRSIVGIKRH  
VKALHLGDTVDSQFKREEDFYYTEVQLKEESAAAAAAAAAAGTPVPGTPTSEPAPTPSMTGLPLSALPPPLHKAQ  
SSGPEHPGPESSLPSGALSXSAPGSFWHIQADHAYQALPSFQIPVSPHIYTSVSWAAAPSAACSLSPVRSRSLSF  
SEPQQPAPAMKSHLIVTSPPRASGARKARGEAKKCRKVYGIEHRDQWCTACRWKKACQRFID

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**FIGURE 2514A**

ATGCTCCATGCTGCAAGCTGCAAGGAGAGCCCAGGAGGGGTGTCCTCCTGGTGGAAAGTTGCGCTTGTGGAAGATG  
ATTTATATAAAGAACGAACGAGAAAAAGAAGGAAATCAGATCGAGACCAGCGTTCCGAGCATTTCCCTCCATGG  
AGCAGAGTGCTCTTAAGGAATATGAAAAATTGGAATCACGGACCAGAAGGGTTTTGAGCAACACTTATCAGAAAC  
TTATTCAGTCTGTCTTCCTGGATGACAGCATCCCTAATGGAGTCAAGTATCTCATAAATAGGCTTCTTGCCCTGA  
TTGAAAAGCCGACAGTGGACCCAATCTACATTGCATTATTTGGAAGCACTGGGGCTGGGAAGAGCTCCCTGATCA  
ATGCCATCATCCAGCAAGCAATGTTTCTACCAGTGTCTGGAGAAAGCATATGTACTTCCTGCATTGTACAAGTGA  
GCTCTGGCTGCTGTGTGCAGTATGAGGCCAAAATCCACCTTCTGTCTGACCAGGAGTGGAGGGAGGAGCTGAAGA  
ACCTGACCAAACCTCCTGCATAGGACGGAGGAGCTGAGCAGAGAAGAGGCAGATGCGTGGAAACAGGGATGAGGCAG  
TGGAGGAAGCCACCTGGAAGCTACAAATGATTTATGGAAATGGGGCAGAGAGTAAGAAGTATGAGGAGTTACTGA  
GGGCGAAGCCCAAAAGGAAGATCCCCACCTCCAGAGTCATCACCTCAAGGCGGAAGAGGCAGAAGAGCTGTCCA  
TCAAGCTGGACCCCTACATCCGCACACAGAGGAGAGATTGGGATGGAGAGGCCGCTGAGATGCGCATCTGGCCCT  
TGATCAAACATGTGGAAGTGACACTTCCCAAATCCGACCTGATCCCAGAAGGGGTCTGTCTGGTGGACATCCAG  
GCACAGGCGACTTCAACAGCAAGAGGGACGAGATGTGAAAAAGACCATTGACAAGTGCTCAGTGATCTGGGTGA  
TCAGCGACATAGAGCGAGTTTTCTGGGGGGCAAGCCACGAAGACCTTCTGAATGAGAGCATCAAAGCCTGCCAGC  
GGGGCTTCTGTAGGGACGTGGCCCTGGTGGTCAACAGATGGACAACTCCACTTGCCAGAATACCTAAGGTCTCT  
CAAAAGTTTTAGAACTTCGGGAGAAGAGAAAAGTCCAGCTGACTTCAAGGTTCTGGAAGCCTCAGATCTGGTGT  
ATACAGTCAGCGCCCAGGAGTACTGGCAGCAGGCTCTCTCACCAGGAGGAAACGGAAATCCCTAAGTTAAGAG  
AATACATCAGGAAGAGCCTCTTGGACAAGAAGAAGAGGACAGTGACCAAGTATGTGACTGAAGCCTTTGGCCTGT  
TGCTCCTCACAGATAGTTTTCAACTCCACGCAAAACCTGCCGAATGAACACTTGCACATGAGTGTCTGCGGAGAT  
TTGCGGAAGAGAAGGTTGAGCTGCTGGAGAAGGCCATCGCACAGTGCTTCGCCTGCATGGAGCAGCCTCTGCAAG  
AAGGGGTCAAGACCGCCAGGACTTCTTACCGCTGCATCCTCAGAGCATGCTTGGTGAGGAGTAAAGGAAACCAAG  
GTTTTTCATCAGACCCTGAAAGCTGTTTGCCTGAAAAATGGCATCTATGCCTCCAGGACTCTGGCGAGAATTGATC  
TAAATGAAGCCCTCACTCAGCCCGTCTATGACCAGATCGACCCTGTTTTTGGAAAGCATTTTTAGGACGGGGAAGC  
CCACTGGTTTCAGCTCTGATGCCTCACATAGATGCTTTTAAGCAGTCCCTGCAGGAGAAAATGACAGAAATTGGGA  
TAAGAAGTGGCTGGAAATATGATAGCTGCAAAAAAATTTCTGATCCAGGAGATAAGTGCCATCCTCGGGGGCC  
TGGAGGACCACATCCTCAGAAGGAAGAGGAGGATCTACGAGTCCCTCACTGCCTCTGTCCAGAGTGACCTGAAGC  
TCTGTTACGAAGAGGCAGCTCAGATCACGGGCAAAAAGCGTGTGAGCGGATGAAAGATGCCATCAGAAGAGGAG  
TGGACCGGCAGGTGGCTGAGGGCATGTTTGAAGGGGCCAGGAAAGGATGCAGCACCAGTTTCAGCAGCTGAAGG  
TACTCTATGCCACATCCTGGATCCTAGACCCCGAGAGGCTCCGGGGGAGGAGAGGAAGCGAGTGCAAGACTG  
GAATCGTGGAAGAAGGTGAAGGGCAGCATCACCCTATGCTGGCCCTTGCTTCGTCCCAGGGGGATGGCCTCTACA  
AGGAGCTTGCAGGGCTGAGCTGCAGGATGGGAGACAATGACAAATGGGACGTGGCCCTTCTCAGGAAGGGGAC  
AGCTGTTGCAGGGTGTGATGGAGAACAAGCTATGTACCTACACACCGTCAGCGACTGTGACACCAGCTCCATCT  
GTGAGGATTCTTTGATGGCAGGAGCCTGTCCAAGCTGAACCTGTGTGAGGATGGTCCATGTCACAAACGGCGGG  
CAAGCATCTGCTGTACCCAGCTGGGGTCCCTGTGCGCCCTGAAGCATGCTGTCTGGGGCTCTACCTGCTGGTCT  
TCCTGATTCTTGTGGGCATCTTCATCTTAGCAGCCTGCTGCCACGCGTGCAGTTCCCAGAGGACATGACCCAGG  
GCTTGCCAGCCCGTGCACGCATTTACCCCTTGATCCTGGGAGGTCCCTGACAGCAGAGGGTCCCTGGTACCTGG  
GAACAGCCAGGGACAGAAGCTGGGACCCAGGAGCTGTGCAGCAGGGGCCCTGAGTTGTCTGGGGAGAGCGCTTACC  
TGCCCACTCCTGTCCCCGGGGATCGGGACTTCCAGAGGGTGAAGTGTCCAGGCCGCGCAGCTCCCCTGACGACC  
TGAAGGCCCTGACTCGCAATGTGAACCGGCTGAATGAGAGCTTCCGGGACTTGCACTGCGGCTGCTGCAGGCTC  
CGCTGCAAGCGGACCTGACGGAGCAGGTGTGGAAGGTGCAGGACGCGCTGCAGAACCAAGTCAGACTCGTTGCTGG  
CGCTGGCGGGCGCAGTGACGCGGCTGGAGGGCGCGCTGTGGGGCTGCAGGCGCAGGCGGTGCAGACCGAGCAGG  
CGGTGGCCCTGCTGCGGGACCGCACGGGCCAGCAGAGCGACACGGCGCAGCTGGAGCTCTACCAGCTGCAGGTGG  
AGAGCAACAGTAGCCAGCTGCTGTGAGGCGCCACGCGGGCCTGCTGGACGGGCTGGCGCGCAGGGTGGGCATCC  
TGGGCGAGGAGCTGGCCGACGTGGGCGCGTGTGCGCGGCCTCAACCACAGCCTGTCTTACGACGTGGCCCTCC  
ACCGCACGCGGCTGCAGGACCTGCGGGTGTGGTGTGAGCAACGCCAGCGAGGACACGCGCCGCTGCGCCTGGCGC  
ACGTAGGCATGGAGCTGCAGCTGAAGCAGGAGCTGGCCATGCTCAACGCGGTACCGAGGACCTGCGCCTCAAGG  
ACTGGGAGCACTCCATCGCACTGCGGAACATCTCCCTCGCGAAAGGGCCACCGGGACCCAAAGGTGATCAGGGGG  
ATGAAGGAAGGAAGGCAGGCTGGCATCCCTGGATTGCCTGGACTTCGAGGTCTGCCCCGGGAGAGAGGTACCC

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**FIGURE 2514B**

CAGGATTGCCCCGGGCCCAAGGGCGATGATGGGAAGCTGGGGGCCACAGGACCAATGGGCATGCGTGGGTTCAAAG  
GTGACCGAGGCCCAAAAGGAGAGAAAGGAGAGAAAGGAGACAGAGCTGGGGATGCCAGTAAGGACATTCTGCTGG  
GGCCGTGGGATATGATCATTACACGATTACTCTTGGCCATGCAGTACACATCAGACACTTCAACTGCCTTCTCTT  
CAGTTGCTCATATCAGCTGA



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**FIGURE 2515**

CTTCCTGCCGCCGCGTTCGCACCTCGCTGCTCCAGCATCTAGGGCATATTCCAACCTTCCAGCCTGCGACCTGCA  
GAGAAAAAAAAAATTACTTATTTTCTTGCCCCGTACATACCTTGAAGTGAGCAAAAAAATTAAATTTTAACCATGA  
GGGAAATCGTGACATCCAGGCTGGTCAGCGTGGCAACCAGATCGGTGCCAAGTTCTGGGAGGTGATCAGTGATG  
AACATGGCATCGACCCCACTGGCACCTACCACGGGGACAGCGACCTGCAGCTGGACCGCATCTCCGTGTACTACA  
GTGAAGCCACTGATGGCAAATATGTTCTCGTGCCATACTGGTGGATCTAGAACCCCTTCCCACGTCTCCATTTC  
TTTATGCCTGGCTTTGCCCCTCTCACCAGCCATGGAAGCCAGCAGTATCGAGCTCTCACAGTGCCGGAACCTCACC  
CAGCAGGTCTTCGATGCCAAGAGCATGATGGCTGCCTGTGACCCCGCCACGGCCGATACCTCACCCTGGCTGCT  
GACTTCCGTGGTCGGATGTCCATGAAGGAGGTCGATGAGCAGATGTTTAACGTGCAGAACAAGAACAGCAGCTAC  
TTTGTGGAATGGATCCCCAACAATATCAAGACAGCTGTCTGTGACATCCCACCTCGTGGCCTCAAGATGGCAGTC  
ACCTTCATCGGCAGTAGCACGGCCATCCAGGAGCTCTTCAAGCACATCTCGGAGCAGTTCACTGCCATGTTCCGC  
CGGAAGGCCTTCTCCACTGGTACACAGGCGAGGGCATGGACGAGA

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**FIGURE 2516**

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSLQLDRLSVYYNEATGGKYVPRAILVDLEPGSHVS  
ISLCLALPLSPAWEASSIELSQCRNSPSRSSMPRT

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**FIGURE 2517**

GCACCTCGCTGCTCCAGCATCTAGGGCATATTCCAACCTTCCAGCCTGCGACCTGCAGAGAAAAAAAAATTACTT  
ATTTTCTTGCCCCGTACATACCTTGAAGTGAGCAAAAAAATTAAATTTTAACCATGAGGGAAATCGTGACATCC  
AGGCTGGTCAGCGTGGCAACCAGATCGGTGCCAAGTTCTGGGAGGTGATCAGTGATGAACATGGCATCGACCCCA  
CTGGCACCTACCACGGGGACAGCGACCTGCAGCTGGACCGCATCTCCGTGTACTACAGTGAAGCCACTGATGGCA  
AATATGTTTCCTCGTGCCATACTGGTGGATCTAGAACCTGGGACCATGGACTCTGTTGCTCAGGTCTTTTGGCC  
AGATCTTTAGACCAGACAACCTTTGTATTTGGTCAGTCTGGGGCAGGTAACAACCTGGGCCAAAGGCCACTACACAG  
AGGGCGCCGAGCTGGTTGATTCTGTCTGGATGTGGTACGGAAGGAGGCAGAGAGCTGTGACTGCCTGCAGGGCT  
TCCAGCTCCCCGCCACGGCCGATACCTCACCGTGGCTGCTGACTTCCGTGGTCGGATGTCCATGAAGGAGGTCGA  
TGAGCAGATGTTTAACGTGCAGAACAAAGACAGCAGCTACTTTGTGGAATGGATCCCCAACAAATATCAAGACAGC  
TGTCTGTGACATCCCACCTCGTGGCCTCAAGATGGCAGTCACCTTCATCGGCAGTAGCACGGCCATCCAGGAGCT  
CTTCAAGCACATCTCGGAGCAGTT

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**FIGURE 2518**

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSDLQLDRISVYVYNEATGGKYVPRAILVDLEPGTMD  
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKEAESCDCLQGFQLTHSLGGGTGSGMGTL  
LISKIREEYPDRIMNTFSVVPSPAESNMNDLVSEYQQYQDATAEEEEEDFGEEAEEEA

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**FIGURE 2519**

GCACCTCGCTGCTCCAGCATCTAGGGCATATTCCAACCTTCCAGCCTGCGACCTGCAGAGAAAAAAAAATTACTT  
ATTTTCTTGCCCCGTACATACCTTGAAGTGAGCAAAAAAATTAAATTTTAACCATGAGGGAAATCGTGCACATCC  
AGGCTGGTCAGCGTGGCAACCAGATCGGTGCCAAGTTCTGGGAGGTGATCAGTGATGAACATGGCATCGACCCCA  
CTGGCACCTACCACGGGGACAGCGACCTGCAGCTGGACCGCATCTCCGTGTACTACAGTGAAGCCACTGATGGCA  
AATATGTTTCCTCGTGCCATACTGGTGGATCTAGAACCTGGGACCATGGACTCTGTTTCGCTCAGGTCCTTTTGGCC  
AGATCTTTAGACCCGCCACGGCCGATACCTCACCGTGGCTGCTGACTTCCGTGGTCCGATGTCCATGAAGGAGGT  
CGATGAGCAGATGTTTAACGTGCAGAACAAGAACAGCAGCTACTTTGTGGAATGGATCCCCAACAAATATCAAGAC  
AGCTGTCTGTGACATCCACCTCGTGGCCTCAAGATGGCAGTCACCTTCATCGGCAGTAGCACGGCCATCCAGGA  
GCTCTTCAAGCACATCTCGGAGCAGTTCCTGCCATGTTCCGCCGGAAGGCCTTCCTCCACTGGTACAC

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**FIGURE 2520**

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSDLQLDRISVYYNEATGGKYVPRAILVDLEPGTMDS  
VRSGPFGQIFRPATADTSPWLLSSVVGCP

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**FIGURE 2521**

CTCCAGCATCTAGGGCATATTCCAACCTTCCAGCCTGCGACCTGCAGAGAAAAAAATTACTTATTTTCTTGCC  
CCGTACATACCTTGAAGTGAGCAAAAAAATTAAATTTTAACCATGAGGGAAATCGTGACATCCAGGCTGGTCAG  
CGTGGCAACCAGATCGGTGCCAAGTTCTGGGAGGTGATCAGTGATGAACATGTCCATGAAGGAGGTCGATGAGCA  
GATGTTTAAACGTGCAGAACAAGAACAGCAGCTACTTTGTGGAATGGATCCCCAACAATATCAAGACAGCTGTCTG  
TGACATCCCACCTCGTGGCCTCAAGATGGCAGTCACCTTCATCGGCAGTAGCACGGCCATCCAGGAGCTCTTCAA  
GCACATCTCGGAGCAGTTCAGTGCCATGTTCCGCCGGAAGGCCTTCCTCCACTGGTACACAGGCGAGGGCATGGA  
CGAGATGGAGTTCACCGAGGCTGACAGCAACATGAACGACCTCGTCTCTGAGTATCAGCAGTACCAGGATGCCAC  
CGCAGAAGAGGAGGAGGATTTCCGGTGAGGAGGCCAAAGAGGAGGCCTAAGGCAGAGCCCCCATCACCTCAGGCTT  
CTCAGTTCCCTTAGCCGTCTTACTCAACTGCCCCTTCCTCTCCCTCAGAATTTGTGTTTGCTGCCTCTATCTTG  
TTTTTGTGTTTTTCTTCTGGGGAGGGTCTAGAACAGTGCCTGGCACATAGTAGGCACTCAATAAATACTTGTGTTG  
TT

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**FIGURE 2522**

MREIVHIQAGQRGNQIGAKFWEVISDEHGIDPTGTYHGDSDLQLDRISVYYSEATDGKYVPRAILVDLEPGTMDS  
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKEAESCDCLOGFQLTHSLGGGTGSGMGTL  
LISKIREEYPDRIMNTFSVVPSPKVSDTVIESYNATLSVHQLVENTDETYCIDNEALYDICFRTL RVTTPTYGDL  
NHLLRDTMSGVTTCLRFPGLNADLCKLAVNMVFPRLHFFMPGFAPLTSHGSQQYRALTVPELTQQVFDAKSMM  
AACDPRHGRYLTVAADFGRMSMKEVDEQMFNVQKNSSYFVEWIPNNIKTAVCDIPPRGLKMAVTFIGSSTAIQ  
ELFKHISEQFTAMFRRKAFLHWYTGEGMDEMEFTEADSNMNDLVSEYQQYQDATAEEEEEDFGEEAKEEA



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**FIGURE 2523**

GGGGACGCCGAGGGCGGCTGCGACGCGCCGAGAGGCCGCGGCTCTCCACCTGTCACCCTGGCCCTTCTCTGCTT  
GGATGGTGTCTTCCTCTCCTCAGCCGAGAATGACTTCGTCCACCGGATCCAGGAGGAACTGGACCGCTTCTGCT  
GCAGAAGCAGCTGTCAAAGGTTCTTCTTTTCCCCCACTCTCCAGTCGCCTCCGGTACCTGATCCATAGAACAGC  
AGAGAATTTTGATCTCTTGAGCAGCTTCTCCGTTGGGGAGGGCTGGAAGAGGAGGACGGTCATCTGTCACCAGGA  
CATCAGGGTACCCAGTTCGGATGGCCTCTCTGGCCCCTGCCGCGCTCCTGCCTCCTGCCCCAGCAGGTACCACGG  
TCCTCGGCCCATCTCCAACCAAGGAGCAGCTGCGGTTCCCCGAGGTGCCCGGGCTGGCCGGTGGTATCGTGGACG  
CAAGCCTGACCAGCCTTTGTATGTGCCCCGGGTGCTGCGCAGGCAGGAAGAATGGGGGCTGACCTCTACCTCGGT  
GCTCAAGAGAGAGGCCCCAGCTGGCAGGGACCCAGAAGAGCCTGGAGATGTTGGTGCTGGAGACCCCAACTCTGA  
TCAGGGACTCCCTGTGCTGATGACTCAGGGAACAGAGGACCTAAAGGGCCCAGGACAAAGGTGTGAGAATGAGCC  
ACTGCTGGACCCGTGTTGGCCCTGAGCCTCTGGGGCCTGAGAGTCAGTCAGGGAAGGGAGACATGGTGGAGATGGC  
CACACGGTTTGGGTCCACCCTGCAGCTAGACCTGGAAAAAGGGGAAGGAGAGTCTGTTGGAGAAGAGGCTGGTGGC  
AGAGGAGGAAGAGGACGAAGAGGAGGTGGAAGAGGATGGCCCCAGCAGCTGCTCGGAGGACGATTACAGTGAGCT  
GCTGCAGGAGATCACAGACAACCTGACGAAGAAGGAGATTAGATAGAGAAGATCCATTTGGACACATCCTCCTT  
CGTGGAGGAGCTGCCTGGAGAGAAGGACCTTGCCACGTGGTAGAGATCTATGACTTTGAACCAGCGCTCAAGAC  
GGAGGACCTGCTGGCAACGTTTCTGAGTTCCAAGAGAAGGGGTTTCAGGATTCAGTGGGTGGATGATACTCACGC  
ACTCGGCATCTTTCCTGCCTGGCCTCAGCTGCGGAAGCCCTGACCCGGGAGTTCTCGGTGCTCAAGATCCGGCC  
CCTCACACAGGGAACCAAGCAGTCAAAGCTCAAAGCCTTGAGAGGCCAAAACCTCCTGCGTCTGGTGAAGGAGAG  
GCCACAGACAAATGCGACTGTGGCCCGGCGGCTGGTGGCCCGGGCCCTGGGACTCCAACACAAAAAGAAAGAGCG  
GCCTGCTGTCCGGGTCCGCTGCCGCCCTGAGGCGCTGGAGACCCAACCTGGCCTGGATCTGCGTCCCGACGTAGCT  
GGCGCCCCAACACCATAAGCCTTCACAGACGCCAGAGCAGCCCCGACCACCCTCGAGCTTCACCATGGGGTGT  
GGTGGGCTTTAGTTTAGTCCCAGAAATGGAGAAAAAATAAAAACTCACGTTGTTCT

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**FIGURE 2524**

MTQGTEDLKGPQRCENEPLLDVGPPEPLGPESQSGKGDVEMATRFGSTLQDLKESLLEKRLVAEEEEDE  
EEVEEDGPSSCEDDYSELLQEITDNLTKKEIQIEKIHLDTSSFVEELPGEKDLAHVVEIYDFEPALKTEDLLAT  
FSEFQEKGFRIQWVDDTHALGIFPCLASAAEALTREFSVLKIRPLTQGTKQSKLKALQRPKLLRLVKERPQTNAT  
VARRLVARALGLQHKKKERPAVRGPLPP

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**FIGURE 2525**

CAGGTACCTGGGGGTGGTTAAGTTGGTGACATGGCTCAGAAGTTTATTTCTTTAAATTTTAAAGTTTTTTTTCTT  
TTTAGTCTTCAGAAAGGCAACAGTAGTCTTTTAAAGTCACTGTTAAAAGTGTAAGACTCTTTTACTCCCTGAGAG  
TCCCCCTTCCCTTTCTTGCCTCCTTTCTTTATTTCTTTTTTTTTTTTTTTTTTTTTTTTACTGAGACGGAGTCTCAC  
TCTGTGCCCCAGGCTGGAGTGCACTGGCGCGATCTCGGCTCACTGCAAACTCCGCCTCCCGGGTTCACCCCTTTCT  
CTTTATTCTTATCCCGGTCAGACTCGCCCCCTCCTCCAAGACATCTCTCTGTTTTATTTTATTGATTTTAGTTC  
TCTTTGGGTGATCGCTCCTTCCCTCTTCAACGGATCCCTCCCCGCTCCATCCTCGTTCTGTGGGAGAGACCAGC  
CTTCTGGTGCTGCAGTCAGGAATGGAGCTTGACAGCGCTCTGGAAGCCCCATCGCAGGAAGACTCTAATTTGTCC  
GAGGAGTTGTCTCACTCCGCCTTTGGACAGGCCTTCTCCAAGATTTTACACTGTCTTGCCCGCCCGGAGGCACGA  
CGAGGCAATGTAAAAGATGCAGTTCTTAAAGACCTCGGTGATCTAATAGAAGCCACAGAATTTGATAGGTTATTT  
GAGGGGACTGGTGACGGCTCCGCGGAATGCCGGAGACACTGGGGCAGGTAGCAAAAGCCCTGGAGAAGTATGCA  
GCCCCCTCCAAGGAGGAGGAAGGTGGAGGTGATGGGCACCTCCGAAGCGGCCGAGAAAGCAGCCCAAGTTGGGTTA  
CTGTTTCTTAAACTGTTAGGGAAAGTTGAGACTGCTAAGAATTCCCTGGTCCGCCCTGCATGGCAGACGGGCCTG  
CATCACTTGGCAGGACCCGTTTATATTTTTGCCATCACACACAGCTTGGAGCAACCATGGACCACTCCGAGATCT  
CGGGAAGTTGCTAGGGAGGTGCTCACCTCACTGCTTCAAGTTACTGAATGCGGTTCTGTGGCAGGATTCTACAT  
GGAGAAAATGAAGATGAGAAAGGGAGACTTTCCGTGATACTAGGGCTTCTCAAACCCGACTTGTATAAGGAATCC  
TGGAAGAATAACCCTGCCATCAAACATGTTTTCTCATGGACTCTGCAACAGGTCACTCGGCCCTGGCTGAGCCAG  
CATCTGGAAGGGTACTTCCCGCATCATTGGTCATTTAGATGACTATCAGACTGAGAACAAAATCCTGGGTGTA  
CACTGTCTCCATCACATTGTGCTTAATGTG

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**FIGURE 2526**

ATGTCCGGGGGCAGCAGCTGCAGCCAGACCCCAAGCCGGGGCCATCCCCGCCACTCGCCGGGTGGTGCTCGGCGAC  
GGCGTGCAGCTCCCGCCCGGGGACTACAGCACGACCCCGGGCGGCACCGTCTTCAGCACCACCCCGGGAGGTACC  
AGGATCATCTATGACCGGAAATTCCTGATGGAGTGTCGGAATCACCTGTGACCAAAACACCCCAAGGGATCTG  
CCCACCATTCCGGGGGTCACCAGCCCTTCCAGTGATGAGCCCCCATGGAAGCCAGCCAGAGCCACCTGCGCAAT  
AGCCCAGAAGATAAGCGGGCGGGCGGTGAAGAGTCACAGTTTGAGATGGACATTTAA

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**FIGURE 2527**

AAGTGTCCCCTCCTACTTCTTGCTGCCTCACGGTTGCTGTTGCAGACCCAGGAGTCTCTGAAGGCTTCCGCGGCT  
TTGGGGCCGGTTGTGAGATGCCAGGCAGAGGCCGCTGCCCGGACTGCGGCTCCACGGAGCTGGTGGAAGACTTCGC  
ACTATTTCGAGAGCCAGCTGGTGTGCTCCGACTGCGGCTGCGTGGTCCAGAGGGGGTCCCTTACCACTACCTTCA  
GCGACGAGGGCAATCTCCGAGAGGTAACATATTCCCGAAGCACAGGGGAAAACGAACAAGTTAGTCGCAGCCAGC  
AACGAGGTCTCCGGCGAGTGAGAGACCTTTGTGCGAGTTCTGCAGTTGCCACCAACATTTGAGGATACCGCGGTTG  
CCTACTACCAACAGGCATATCGGCCTCTGGCATCCGAGCGGCCAGGCTGCAAAAGAAGGAGGTGTTGGTTGGGT  
GCTGCGTCTTAATCACCTGCCGACAGCATAACTGGCCCCCTAACAAATGGGGGCCATCTGCACGCTGTTGTATGCAG  
ATTTGGATGTGTTTTCTAGCACTTGCAATGCAGATAGTGAAGCTCCTGGGACTGGATGTGCCATCTCTGTGCTTGG  
CAGAACTGGTGAAGACCTATTGCAGCAGCTTCAAACCTGTTCCAAGCTTCACCTTCTGTGCCAGCCAAATACGTGG  
AAGACAAAGAGAAGATGCTGTCTCGAACAATGCAGTTGGTGGAGCTGGCAAATGAGACGTGGCTGGTGACCGGGA  
GGCATCCCTTGCCCGTCATCACTGCTGCGACTTTCCTGGCTTGGCAGTCGCTGCAGCCTGCAGATCGGCTTTCAT  
GTTCCCTTGCCCGATTTTGTAAATTGGCAAATGTGGACCTGCCCTACCCGGCGTCTCTCCGCTGCAGGAGCTGC  
TGGCTGTGCTGCTGCGGATGGCTGAGCAGCTGGCCTGGTTACGAGTTCTGAGACTTGACAAACGGTCTGTGGTGA  
AGCACATCGGTGACCTTCTCCAGCACCGCCAGTCACTGGTCCGCTCTGCCTTTCGGGATGGGACAGCAGAAGTGG  
AGACCCGAGAGAAGGAGCCACCGGGGTGGGGACAGGGGCAAGGAGAAGGGGAGGTGGGAAATAATTCCCTTAGGTT  
TACCCAGGGGAAGCGGCCCGCCAGTCTGCCCCTTCTCTTGCCACCCTGCATGTTGAAGTCCCCGAAGCGGATCT  
GCCCTGTACCCCTGTCTCCACTGTCACTGGAGATGAGAACATTTCTGATAGTGAAATAGAACAGTATTTGCGTA  
CCCCTCAGGAAGTTAGGGACTTTCAGAGAGCCCAGGCTGCTAGACAGGCTGCCACGAGTGTCCCTAACCCCTCCCT  
GATGGATATCCACTGGGAGCACTTCATCCTGTTCTGACAGCTTGATAACATTCCTGTTATAACCAAGGATGGAAG  
TGTACACCAGTCCGTAGGTATTGCTTTTCTTGTGTTGAAGGAACCAAGAGGGGCTCTGCCATTAGTTGGACCCCTGG  
GTCCTGGAGTAAAGTCAGGAGTGACAGGGATGACTATAGGTAGGAGAGATTCCCATCCCTTGGTGTGGGAGAGCAA  
GTTGCCTATGTCCATGTTCTGTGAGATGGCTTTCCTCATAGATGGATGGGAAAATGTCAGGCTCTTTGCTGCTGG  
TTTGAATTGGACACACTGCTGCGGCTCCTCCTGCAGGCCTGAGGGGGCTTCCCTCTGCTTGTGGAGTGGTTGGCA  
TTCCCAGCAGTATCAACCCTCAGAGGAGCGGGAACTGGGGAATTCTGGCCCTACGTGCATTACAGGCAATGATG  
GGTTTGTGTGTATGGTGTGATGAGATCCTCTACCTCATAACAAAAGGACAGTGGGTAGACTAAGGCAGTAGCTCA  
AAGGGCTTTGCAAAATTTTAATATATTAATAACAAGAGGCATCTGCTAGAAAACATTCTATTGTATAAAACCCGAG  
TTCTT

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**FIGURE 2528**

MPGRGRCPDCGSTELVEDSHYSQSQLVCSDCGCVVTEGVLTTF SDEGNLREVTYSRSTGENEQVSR SQQRGLRR  
VRDL CRVLQLPPTFEDTAVAYYQQAYRHSGIRAARLQKKEVLVGCCVLITCRQHNWPLTMGAICTLLYADLDVFS  
STYMQIVKLLGLDVPSLCLAE LVKTYCSSFKLFQASPSVPAKYVEDKEKMLSRTMQLVELANETWLV TGRHPLPV  
ITAATFLAWQSLQPADRLSCSLARFCKLANVDLPYPASSRLQELLAVLLRMAEQLAWLRVLR LDKRSVVKHIGDL  
LQHRQSLVRSAFRDGTAEVETREKEPPGWGQGQGEVGNNSLGLPQGKRPASPALLLP CMLKSPKRICPVPPV  
STVTGDENISDSEIEQYL RTPQEV RDFQRAQAARQAATSVPNPP

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**FIGURE 2529**

TTCATTGCGCCAGTGACTAAAAAGAGAATTAAATATGGGTGATGTTGAGAAAGGCAAGAAGATTTTTATTATGAA  
GTGTTCCCAGTGCCACACTGTTGAAAAGGGAGGAAAGCACAAAGATTGGGCCAAATCTCCATGGTCTTTTCAGGTG  
GAAGACAGGTCAGGCCCCTGGATACTCTTACACAGCCGCCAATAAGAACAAATGCATCATCTGGGGAGAGGATAC  
ACTGATGGAGTATTTGGAGAATCCCAAGAAGTACATCCCTGGAACAAAAATGATCTTTGTCAGCATTAGAAGAA  
GGAAGAAAGGGCAGACTTGATAGCTTATCTCAAAAAAGCTACTAATGAGTAATAATTGGCCACTGCCTTATTTAT  
TACTACACCAGAATTCAGATCATGAATGACTGACAGAATATTTT

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**FIGURE 2530**

GCGACCCCTCTTCTTTGCGTAGAGTTTTTCAGGTTGCTCCTGGAAACCATGCCGAAAGTAGTGTCTCGGTCAGTAG  
TCTGCTCTGACACTCGGGACCGGGAGGAATATGACGACGGCGAGAAGCCCCCTCCATGTGTACTACTGTTTGTGCG  
GCCAGGTGGTCCTAGTGCTGGACTGTCAGTTAGAGAAATTGCCCATGAGGCCCCGGGACCGGTCCCGTGTGATTG  
ATGCTGCCAAACATGCCCATAGTTTTGTAAACACAGAAGACGAAGAGACTATGTATCTGCGGAGACCTGAAGGCA  
TTGAACTACAGTACAGAAAGAAATGTGCAAAGTGTGGACTGCTGCTCTTCTACCAATCCCAGCCGAAGAATGCTC  
CCGTTACCTTCATTGTGGATGGAGCAGTCGTCAAGTTTGGCCAGGGCTTTGGGAAAACGAACATATATACTCAGA  
AACAAGAGCCTCCTAAGAAGGTGATGATGACCAAACGGACCAAAGACATGGGCAAGTTCAGTTCTGTCACTGTGT  
CTACCATTGATGAAGAGGAAGAGGAGATTGAGGCTAGGGAAGTTGCTGACTCGTATGCACAGAATGCCAAAGTGA  
TTGAAAAACAGCTGGAGCGCAAAGGCATGAGCAAGAGGCCACTGCAAGAGCTGGCTGAATGGGAACCCCAGGAAA  
AGTGAAAATGAAGGGGACCCTTGATTGACAACCAGTTCAAATAACCAGGCTTTTTTTCTGAGCCCTAGACTGGAG  
GCAAGCATTTAGATCAGGAGACAAAGTAACTTCTTGATTACATAGACTGGTTCCTATTTATATCCCAGCAGAAGG  
CTTTATGTTGTTTCCCATTTGATTCTCCTACATGCAGTGAGGTCTTTAACTGAGTCCATTTGACCTGCTTTCT



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**FIGURE 2531**

GGCGGCGGCAAGGGCGGGAGGGAGCGGTGCGCGCGGGATTGGAGCTGCCTAGCCTCGCGGTGCTTTGGCAGCA  
TGTAAGCAGCTGTTTGGCCAAGAACCCAGGTCACTGCTAAGAAAGGGTGCCCTTCGGGAGAAGAGTGTCCAGAGGAT  
ACCAATGCCAGATGCATCTGGAGTTACACTCAGCACTCGCAGTATGAGACATTGTGTGCCAGCATCTCTTTCCCTT  
CTGGCAAAGACTGTAGCTCTCCAGGTAGGAGGATCCTGGAAGCTGTGAGCACCAGGAGCCTTGCCAGAGGAGGAT  
GGGGCCAGATATGAACTCTCTACCATGAACATGGTTCTCGGCTTATGAAGGAATTTAAGTAAAACAGTTATTTA  
ATTTCCACATATTCAAGTCAAAGCCTTCTGTGTGAAGTGCCAGTGATTACCCCTCCACAGGAGTTATCAGGATT  
TTTCTGGCACCAAGTTTAATTCTTCTCGTACTTCTGGTAGTGACAGATCTGCAGGACAGATTTATCTGTTGAAT  
GCTCTTGGGCAGGAAAACCATGTAAACCTCTGGAAGCAGCATCAGGACAGCAGAGCAGAGCCCCGTCCTCACT  
GCTCACTTGACAGAACTCCATCTGGACTCGGATGCTTTTACTGAAGACCCATCTAGCTTCAATCATCTTTAGA  
GTCCATCCATTCTGGAGAGACCTGGCGTTTGACAGTTGCCTCCTGTGGCCGTGTTTTCTGTCTATTCTGTTCCCAG  
GCCTTCTATTACAGGCGGTTGAAGGGTGTGGACTTTGGAATGGGGTTTGCTGTTCTTCGGGAACCTTGCTTCCTTTC  
CCTGGCTGGTGCTGTGACGAAGGACCATCTGAAGGCTGCAATTTGTTCTTAGGGAGGCAGGTGCTGGCCTGGCCT  
GGATCTTCCACCATGTTCTCTGTTGCTGCCTTTTGATAGCCTGATTGTCAACCTTCTGGGCATCTCCCTGACTGTC  
CTCTTACCCCTCCTTCTCGTTTTTCATCATAGTGCCAGCCATTTTTGGAGTCTCCTTTGGTATCCGCAAACCTCTAC  
ATGAAAAGTCTGTTAAAAATCTTTGCGTGGGCTACCTTGAGAATGGAGCGAGGAGCCAAGGAGAAGAACCACCAG  
CTTTACAAGCCCTACACCAACGGAATCATTGCAAAGGATCCCCTTCACTAGAAGAAGAGATCAAAGAGATTCTGT  
CGAAGTGGTAGTAGTAAGGCTCTGGACAACACTCCAGAGTTCGAGCTCTCTGACATTTTCTACTTTTGCCGGA  
GGAATGGAGACCATTATGGATGATGAGGTGACAAAGAGATTCTCAGCAGAAGAAGTGGAGTCTGGAACCTGCTG  
AGCAGAACCAATTATAACTTCCAGTACATCAGCCTTCGGCTCACGGTCTGTGGGGGTTAGGAGTGCTGATTCCG  
TACTGCTTTCTGCTGCCGCTCAGGATAGCACTGGCTTTACAGGGATTAGCCTTCTGGTGGTGGGCACAACCTGTG  
GTGGGATACTTGCCAAATGGGAGGTTTAAGGAGTTCATGAGTAAACATGTTCACTTAATGTGTTACCGGATCTGC  
GTGCGAGCGCTGACAGCCATCATCACCTACCATGACAGGAAAACAGACCAAGAAATGGTGGCATCTGTGTGGCC  
AATCATACCTCACCGATCGATGTGATCATCTTGCCAGCGATGGCTATTATGCCATGGTGGGTCAAGTGCACGGG  
GGACTCATGGGTGTGATTGAGAGGCCATGGTGAAGGCTGCCACACGCTCTGGTTTGAGCGCTCGGAAGTGAAG  
GATCGCCACCTGGTGGCTAAGAGACTGACTGAACATGTGCAAGATAAAAGCAAGCTGCCTATCCTCATCTTCCCA  
GAAGGAACCTGCATCAATAATACATCGGTGATGATGTTCAAAAAGGGAAGTTTTGAAATTGGAGCCACAGTTTAC  
CCTGTTGCTATCAAGTATGACCCTCAATTTGGCGATGCCCTTCTGGAACAGCAGCAAATACGGGATGGTGACGTAC  
CTGCTGCGAATGATGACCAGCTGGGCCATTGTCTGCAGCGTGTGGTACCTGCCTCCCATGACTAGAGAGGCAGAT  
GAAGATGCTGTCCAGTTTGCGAATAGGGTGAAATCTGCCATTGCCAGGCAGGGAGGACTTGTGGACCTGCTGTGG  
GATGGGGGCCCTGAAGAGGGAGAAGGTGAAGGACACGTTCAAGGAGGAGCAGCAGAAGCTGTACAGCAAGATGATC  
GTGGGGAACCACAAGGACAGGAGCCGCTCCTGAGCCTGCCTCCAGCTGGCTGGGGCCACCGTGCGGGGTGCCAAC  
GGGCTCAGAGCTGGAGTTGCCGCCGCCGCCCCACTGCTGTGTCTTTCCAGACTCCAGGGCTCCCCGGGCTGCT  
CTGGATCCCAGGACTCCGGCTTTGCCCGAGCCGACGCGGGATCCCTGTGCACCCGGCGCAGCCTACCCTTGGTGG  
TCTAAACGGATGCTGCTGGGTGTTGCGACCCAGGACGAGATGCCTTGTTCTTTTACAATAAGTCGTTGGAGGAA  
TGCCATTAAAGTGAACCTCCCCACCTTTGCACGCTGTGCGGGCTGAGTGGTTGGGGAGATGTGGCCATGGTCTTGT  
GCTAGAGATGGCGGTACAAGAGTCTGTTATGCAAGCCCGTGTGCCAGGGATGTGCTGGGGGCGGCCACCCGCTCT  
CCAGGAAAAGGCACAGCTGAGGCACTGTGGCTGGCTTCGGCCTCAACATCGCCCCCAGCCTTGAGCTCTGCAGAC  
ATGATAGGAAGGAACTGTCTATCTGCAGGGGCTTTAGCAAAAATGAAGGGTTAGATTTTTATGCTGCTGCTGATG  
GGGTTACTAAAGGGAGGGGAAGAGGGCCAGGTGGGCCGCTGACTGGGCCATGGGGAGAACGTGTGTTCTGACTCCA  
GGCTAACCCCTGAACCTCCCCATGTGATGCGCGCTTTGTTGAATGTGTGTCTCGGTTTCCCCATCTGTAATATGAGT  
CGGGGGGAATGGTGGTGATTCTTACCTCACAGGGCTGTTGTGGGGATTAAAGTGCTGCGGGTGAGTGAAGGACAC  
ATCAGCTTCAGTGTTCAGTACAGGCCACAAAACGGGGCACGGCAGGCCTGAGCTCAGAGCTGCTGCACTGGG  
CTTTGGATTTGTTCTGTGAGTAAATAAACTGGCTGGTGAATG

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**FIGURE 2532**

MFLLLPFDSLIVNLLGISLTVLFTLLLVFIIVPAIFGVSF GIRKLYMKSLLKIFAWATLRMERGAKEKNHQLYKP  
YTNGIIAKDPTSLEEEIKEIRRS GSSKALDNTPEFELSDIFYFCRKGMETIMDDEVTKRFS AEELESWNLLSRTN  
YNFQYISLRLTVLWGLGV LIRYCFLPLRIALAFTGISLLVVGTTVVGYLPNGRFKEFMSKHVHLMCYRICVRAL  
TAIITYHDRENRP RGGICVANHTSPIDV IILASDGYAMVGQVHGGLMGVIQ RAMVKACPHVWFERSEVKDRHL  
VAKRLTEHVQDKSKLPILIFPEGTCINNTSVMMFKKGSFEIGATVYPVAIKYDPQFGDAFWNSSKYGMVTYLLRM  
MTSWAIVCSVWYLP PMTREADEDVQFANRVKSAIARQGGLVDLLWDGGLKREKVKDTFKEEQKLYSKMIVGNH  
KDRSRS

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**FIGURE 2533**

GAACCCTAGGTTGTTGGATGATGTCAGCTTCCATCCTTGTGTTTCGTTTCAAACGCTGGGAATCTGAGCGCATCCT  
CTCCTTCATCCCTCCTGATGGAACTTCCGCCTGCTGTCTTACCATGTGTCAGTGCACAGAATCTGGTTGCAATCCC  
AGTGTATGTCAAACATAACATCAGTTTCCGGGACAGTAGTTCCCTTGGACGCTTTGAAATAACGGTGGGACCCAA  
GCAGACGATGGGGAAGACCATTGAGGGAGTGATTGTCACCAGCCAGATGCCCAAGGGGGTCTGAACATGAGCCT  
TACTCCATCACAGGGGACACACACATTGACCCAGTCACAAAGATGCTGTCTTGGGATGTAGGAAAAATAAATCC  
ACAAAAGCTACCAAGTTTGAAGGGGACCATTGAGTCTTCAGGCTGGAGCTTCCAAACCAGATGAAAACCCACAAT  
TAACCTGCAGTTTAAGATCCAGCAGCTGGCCATTTCTGGACTCAAGGTGAATCGTCTGGATATGTATGGAGAAAA  
GTACAAACCCTTTAAGGGCATAAAATACATGACCAAAGCTGGGAAGTTCCAAGTTCGAACCTGAAGGGAGCATT  
GCTGAGGGAATAGTCTTGCACATTTTTTTCATTTCTTACTTGTCTAAAAGTAAAAAAAATATCAGCCTGTCTCCT  
AGGTGAGTCCCTCCTGGACCCACCCGCTCCCTTTTTTCTTAGCCTTCAGTGCCATGGAACTAATCAAGGGAGG  
AAAAGGTCACCAGGGAGAACTGGACAGAAGTGAACACAGCAACACCAGTTCTCAAGGACAAGGTGTGTGATGGG  
GGTAGGAAGCTTGGTGCTTATGTAACCATTTTAAACGTGGTTTCTATAGGAAAGACCAACATTTGTTTAGCTTGC  
TTGGCTTTAATTATCTAAAGCCAATGAAAGACTTCTTTGTTGATTTTTTAAGATAGAAAGATTAAAAAGAAAGAA  
AGATGGGAAGAAAATGAATGTTAGTCAAGGAAAGGCCACTTAAGGATCTGCTCTATGAAGGAGAAGAAAGAGGAA  
AAAGAAGTAAAGGAGTTAGGAGGAGACACTTAAATGAAAGATTGGCAAGAAAAGCAGTCGGACTCTACCTTAAGG  
AGGGATGGGAAGGAAAGAGTTGAGTTGGTTTCTTTCTGATTCTCTACTCATGTAGAAAACACTTGTACTTCTGG  
AAATGGACTGGAGACTTTTTAAATTTGAGTCCACTATTGACATGGAAACCCAGTGGAATCAGATTTTCCCTCAA  
AGACCATGATGGTATCGGACTAGTTTTTCAGACACTGCCTGTTGCTGTCCATCAGCACTTGGTCTCTTATCTTCAG  
TGAGAAGGTGACCCGCTTCTTCCCATGGTGGCTGCCTAAAGTGCTTCTTTTCTAACCCTAAACAGTTCTACTCA  
CTTCTTTTACAGAATTCACCGGCCATTTTCTGTTACCTGATCCTTCTACAGGATTTTTTAAAAAGTAAGAGAGT  
TTCAGAGAAGCCGATCCCATATCCCCAGTGCAGCCAGGGTTTGTGTGTCATCGTACTGGAGTAGAGGGCCGACT  
CTTCCCATGAAGGTGAGCACAGCTGTGAGTGAGTGAGCTCATATCTCCATTTGTCAGTGCTGGACTGGTACCAGA  
TCGTAACCTTCCCGTTGGTCGGAAACTTTTCCATCTGTGCGCCTAGAAAAAGAGAAAGCTTACCATCGAGGGTGT  
GGTTGATCCTTGAAGCTGCTTGGTAAAGTTATCATTTCCTCAGTCTTTTCTTTTGTACTCCTATCATGTATTCA  
TAATATCTACCAGTCCCTTTTCAATTCTAAGACAAAACATTTCTCCTAAATCTCTGAATAAAATCAGTGCTGTAGG  
AAGATGGACTGTGTTGATCATGGGTGTAAGCAACCCAGTTTAAAGAACATGGCAACTAAAGGGATACCTCAGGCT  
TTCTTTCCCAGTGGGTCATTTTTGTCTAGTTTCAAGTGTGTCTGTACTATTTAAATATTTATACAAAAGGGTTTT  
TGTTTATAGCTTAAAGGAATGATACTGTGCTCTGCTTGGTGCATGGAGAAAAAGGAAGACCCATACTCTCCACACC  
CTAGAGCTTTTCTCTAAATATTGTGCAAAGTTTTTGTAGTTTTATCTTCTGACTTTGGGACTAGTTTTTGTCTGC  
AGAGTTGTGTTGCTTTGTGATTTTCTCTGGGATAGTGTACTGTACACAACCAGATGTGTTCCACACTCCGTGAC  
TCCGCAGTTTGTCTGGAGTGACATACACATCCACCATGGAAAGGGAAGCATCTCTGCCTGTGGATTCTCAAGTA  
CTTGGAAGCACCTCTCCTGAGGAACCTACAGGATTCTAAGGTTTCTAGGTCACTGAACAATAATCTTGGTCCC  
TGAATATTTCTAGGTTTGTAAAGTGCAGCAGTTTTTATTTCTCTAGAACTCATCCTGTTTCAAGGGAAGTACCTAA  
GAAGATATAGAGTGTCTTAGGGTAAGGGACCTGCAGGTGTAAGCATAGATGAAATAACTGTCCTGTACACAGTG  
CAGCAGGCCATGGAGTGTAGCGGGCATCGCTGCCGCCATTCTGCAGCATCACCATAAGCAGTGCAGGGTGTCTC  
CATCGAGCTGTTTGGTTCCATGTGTGTTTAAACATGTGCAGAAGTAGCTTCTCTGTTTAAAGTTAATAAAGTTGAG  
TTTACCAGTC

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**FIGURE 2534**

ATGGCCCTGTCCACTGAGCATCCTCCCGCCACACAGAAACCCGCCAGCCGGGGCCACCGACCCACCCCTGCC  
TGGAACTTAAGGAGGCCGGAGCTGTGGGAGCTCAGAGCTGAGATCCTACAGGAGTCCAGGGCTGGAGAGAAAA  
CCTCTGCGAGGAAAGGGAAGGAGCAAGCCGTGAATTTAAGGGACGCTGTGAAGCAATCATGGATGCAATGAAGAG  
AGGGCTCTGCTGTGTGCTGCTGTGTGTGGAGCAGTCTTCGTTTCGCCCAGCCAGGAAATCCATGCCCGATTGAG  
AAGAGGAGCCAGATCTTACCAAGTGATCTGCAGAGATGAAAAACGCAGATGATATACCAGCAACATCAGTCATG  
GCTGCGCCCTGTGCTCAGAAGCAACCGGGTGGAATATTGCTGGTGCAACAGTGGCAGGGCACAGTGCCACTCAGT  
GCCTGTCAAAAGTTGCAGCGAGCCAAGGTGTTTCAACGGGGGCACCTGCCAGCAGGCCCTGTACTTCTCAGATTT  
CGTGTGCCAGTGCCCCGAAGGATTTGCTGGGAAGTGCTGTGAAATAGATACCAGGGCCACGTGCTACGAGGACCA  
GGGCATCAGCTACAGGGGCACGTGGAGCACAGCGGAGAGTGGCGCCGAGTGACCAACTGGAACAGCAGCGCGTT  
GGCCCAGAAGCCCTACAGCGGGCGGAGGCCAGACGCCATCAGGCTGGGCCTGGGGAACCACAACACTACTGCAGAAA  
CCCAGATCGAGACTCAAAGCCCTGGTGCTACGTCTTTAAGGCGGGGAAGTACAGCTCAGAGTTCTGCAGACCCCC  
TGCCTGCTCTGAGGGAAACAGTGACTGCTACTTTGGGAATGGGTGAGCCTACCGTGGCAGCGCACAGCCTCACCGA  
GTGGGGTGCCTCCTGCCTCCCGTGGAATTCATGATCCTGATAGGCAAGGTTTACACAGCACAGAACCCAGTGC  
CCAGGCACTGGGCCTGGGCAAACATAATTACTGCCGGAATCCTGATGGGGATGCCAAGCCCTGGTGCCACGTGCT  
GAAGAACCGCAGGCTGACGTGGGAGTACTGTGATGTGCCCTCCTGCTCCACCTGCGGCCTGAGACAGTACAGCCA  
GCCTCAGTTTCGCATCAAAGGAGGGCTCTTCGCCGACATCGCCTCCACCCCTGGCAGGCTGCCATCTTTGCCAA  
GCACAGGAGGTGCGCCGGAGAGCGGTTCTGTGCGGGGGCATACTCATCAGCTCCTGCTGGATTCTCTGCGCGC  
CCACTGCTTCCAGGAGAGGTTTCCGCCCCACCACCTGACGGTGATCTTGGGCAGAACATACCGGGTGGTCCCTGG  
CGAGGAGGAGCAGAAATTTGAAGTCGAAAAATACATTGTCCATAAGGAATTCGATGATGACACTTACGACAATGA  
CATTGCGCTGCTGCAGCTGAAATCGGATTCGTCCCGCTGTGCCAGGAGAGCAGCGTGGTCCGCACCTGTGTGCCT  
TCCCCCGGCGGACCTGCAGCTGCCGGACTGGACGGAGTGTGAGCTCTCCGGCTACGGCAAGCATGAGGCCTTGTC  
TCCTTTCTATTTCGGAGCGGCTGAAGGAGGCTCATGTGAGACTGTACCCATCCAGCCGCTGCACATCACAACATTT  
ACTTAACAGAACAGTCACCGACAACATGCTGTGTGCTGGAGACACTCGGAGCGGGCGGGCCCCAGGCAAACCTTGCA  
CGACGCCTGCCAGGGCGATTTCGGGAGGCCCCCTGGTGTGTCTGAACGATGGCCGCATGACTTTGGTGGGCATCAT  
CAGCTGGGGCCTGGGCTGTGGACAGAAGGATGTCCCGGGTGTGTACACCAAGGTTACCAACTACCTAGACTGGAT  
TCGTGACAACATGCGACCGTGAACAGGAACACCCGACTCCTCAAAAGCAAATGAGATCCCGCCTCTTCTTCTTCA  
GAAGACACTGCAAAGGCGCAGTGCTTCTCTACAGACTTCTCCAGACCCACCACACCGCAGAAGCGGGACGAGACC  
CTACAGGAGAGGGAAGAGTGCATTTTCCCAGATACTTCCCATTTTGGGAAGTTTTAGGACTTGGTCTGATTTAG  
GATACTCTGTGAGATGGGAAGACATGAATGCACACTAGCCTCTCCAGGAATGCCTCCTCCCTGGGCAGAAAGTGG  
CCATGCCACCCTGTTTTTTCAGCTAAAGCCCCAACCTCCTGACCTGTACCGTGAGCAGCTTTGGAAACAGGACCACA  
AAAATGAAAGCATGTCTCAATAGTAAAAGATAACAAGATCTTTAGGAAAGACGGATTGCATTAGAAATAGACAG  
TATATTTATAGTCACAAGAGCCCAGCAGGGCCTCAAAGTTGGGGCAGGCTGGCTGGCCCGTCATGTTTCTCAAAA  
GCACCCTTGACGTCAAGTCTCCTTCCCCTTTCCCCTCCCTGGCTCTCAGAAGGTATTCTTTTGTGTACAGTG  
TGTAAGTGTAAATCCTTTTTCTTTATAAACTTTAGAGTAGCATGAGAGAATTGTATCATTTGAACAACCTAGGCT  
TCAGCATATTTATAGCAATCCATGTTAGTTTTTACTTTCTGTTGCCACAACCCTGTTTTTACTGTACTTAATAA  
ATTCAGATATATTTTTTACAGTTTTTCC

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**FIGURE 2535**

MDAMKRGLCCVLLLCGAVFVSPSQEIHARFRRGARSYQVICRDEKTQMIYQQHQSWLRPVLRSNRVEYCWCNSGR  
AQCHSVPVKSCSEPRCFNNGGTCQQALYFSDFVCQCPEGFAGKCCEIDTRATCYEDQGISYRGTWSTAESGAECTN  
WNSSALAQKPYSGRRPDAILRLGLGNHNYCRNPDRDSKPWCYVFKAGKYSSEFCSTPACSEGNSDCYFGNGSAYRG  
THSLTESGASCLPWNSMILIGKVYTAQNPSAQAALGLGKHNYCRNPDGDAKPWCHVLKNRRLTWEYCDVPSCSTCG  
LRQYSQPQFRIKGGLFADIASHPWQAAIFAKHRRSPGERFLCGGILISSCWILSAAHCFQERFPPHHLTIVILGRT  
YRVVPGEESQKFEVEKYIVHKEFDDDTYDNDIALQLKSDSSRCAQESSVVRTVCLPPADLQLPDWTECELSGYG  
KHEALSPFYSERLKEAHVRLYPSSRCTSQHLLNRTVTDNMLCAGDTRSGGPQANLHDACQGDSSGFLVCLNDGRM  
TLVGIISWGLGCGQKDVPGVYTKVTNYLDWIRDNMRP

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**FIGURE 2536**

ATGGCCCTGTCCACTGAGCATCCTCCCGCCACACAGAAACCCGCCAGCCGGGGCCACCGACCCCACCCCTGCC  
TGGAAACTTAAGGAGGCCGGAGCTGTGGGGAGCTCAGAGCTGAGATCCTACAGGAGTCCAGGGCTGGAGAGAAAA  
CCTCTGCGAGGAAAGGGAAGGAGCAAGCCGTGAATTTAAGGGACGCTGTGAAGCAATCATGGATGCAATGAAGAG  
AGGGCTCTGCTGTGTGCTGCTGTGTGTGGAGCAGTCTTCGTTTTCGCCAGCCAGGAAATCCATGCCCGATTTCAG  
AAGAGGAGCCAGATCTTACCAAGTGATCTGCAGAGATGAAAAACGCAGATGATATACCAGCAACATCAGTCATG  
GCTGCGCCCTGTGCTCAGAAGCAACCGGGTGGAATATTGCTGGTGCAACAGTGGCAGGGCACAGTGCCACTCAGT  
GCCTGTCAAAAGTTGCAGCGAGCCAAGGTGTTTCAACGGGGGCACCTGCCAGCAGGCCCTGTACTTCTCAGATTT  
CGTGTGCCAGTGCCCCGAAGGATTTGCTGGGAAGTGCTGTGAAATAGATACCAGGGCCACGTGCTACGAGGACCA  
GGGCATCAGCTACAGGGGCACGTGGAGCACAGCGGAGAGTGGCGCCGAGTGCACCAACTGGAACAGCAGCGCGTT  
GGCCCAGAAGCCCTACAGCGGGCGGAGGCCAGACGCCATCAGGCTGGGCCTGGGGAACCACAACTACTGCAGAAA  
CCCAGATCGAGACTCAAAGCCCTGGTGCTACGTCTTTAAGGCGGGGAAGTACAGCTCAGAGTTCTGCAGACCCCC  
TGCCTGCTCTGAGGGAAACAGTGACTGCTACTTTGGGAATGGGTGAGCCTACCGTGGCAGGCACAGCCTCACCGA  
GTCGGGTGCCTCCTGCCTCCCGTGGAATTCATGATCCTGATAGGCAAGGTTTACACAGCACAGAACCCCAAGTGC  
CCAGGCAGTGGGCCTGGGCAAACATAATTACTGCCGAGTGGACGGAGTGTGAGCTCTCCGGCTACGGCAAGCAT  
GAGGCCTTGTCTCCTTTCTATTTCGGAGCGGCTGAAGGAGGCTCATGTGAGACTGTACCCATCCAGCCGCTGCACA  
TCACAACATTTACTTTAACAGAACAGTCACCGACAACATGCTGTGTGCTGGAGACACTCGGAGCGGCGGGCCCCAG  
GCAAACCTTGACGACGCCTGCCAGGGCGATTTCGGGAGGCCCCCTGGTGTGTCTGAACGATGGCCGCATGACTTTG  
GTGGGCATCATCAGCTGGGGCCTGGGCTGTGGACAGAAGGATGTCCCGGTGTGTACACCAAGGTTACCAACTAC  
CTAGACTGGATTTCGTGACAACATGCGACCGTGACCAGGAACACCCGACTCCTCAAAAGCAAATGAGATCCCGCCT  
CTTCTTCTTCAGAAGACACTGCAAAGGCGCAGTGCTTCTCTACAGACTTCTCCAGACCCACCACACCGCAGAAGC  
GGGACGAGACCCTACAGGAGAGGGAAGAGTGCATTTTCCCAGATACTTCCCATTTTGGAAAGTTTTTCAGGACTTGG  
TCTGATTTTCAGGATACTCTGTGATGAGGGAAGACATGAATGCACACTAGCCTCTCCAGGAATGCCTCCTCCCTGG  
GCAGAAAGTGGCCATGCCACCCTGTTTTTCAGCTAAAGGCCAACCTCCTGACCTGTACCGTGAGCAGCTTTGGAA  
ACAGGACCACAAAAATGAAAGCATGTCTCAATAGTAAAAGATAACAAGATCTTTTCAGGAAAGACGGATTGCATTA  
GAAATAGACAGTATATTTATAGTCACAAGAGCCCAGCAGGGCCTCAAAGTTGGGGCAGGCTGGCTGGCCCCGTCAT  
GTTCTTCAAAGCACCCTTGACGTCAAGTCTCCTTCCCCCTTCCCCACTCCCTGGCTCTCAGAAGGTATTCCTTT  
TGTGTACAGTGTGTAAAGTGTAATCCTTTTTCTTTATAAACTTTAGAGTAGCATGAGAGAATTGTATCATTTGA  
ACAACTAGGCTTCAGCATATTTATAGCAATCCATGTTAGTTTTTACTTTCTGTTGCCACAACCCTGTTTTTACT  
GTACTTAATAAATTCAGATATATTTTTTCACAGTTTTTCCAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 2537**

MDAMKRGLCCVLLLCGAVFVSPSQEIHARFRRGARSYQVICRDEKTQMIYQQHQSWLRPVLR SNRVEYCWNSGR  
AQCHSVPVKSCSEPRCFNGGTCQQALYFSDFVCQCEGFAGKCCEIDTRATCYEDQGISYRGTWSTAESGAECTN  
WNSSALAQKPYSGRRPDAILRLGLGNHNYCRNPDRDSKPWCYVFKAGKYSSEFCSTPACSEGNSDCYFGNGSAYRG  
THSLTESGASCLPWNSMILIGKVYTAQNPSAALGLGKHNYCRTGRSVSSPATASMRPCLLSIRSG

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**FIGURE 2538**

ATGGCCCTGTCCACTGAGCATCCTCCCGCCACACAGAAACCCGCCAGCCGGGGCCACCGACCCCACCCCCTGCC  
TGGAACCTTAAGGAGGCCGGAGCTGTGGGGAGCTCAGAGCTGAGATCCTACAGGAGTCCAGGGCTGGAGAGAAAA  
CCTCTGCGAGGAAAGGGAAGGAGCAAGCCGTGAATTTAAGGGACGCTGTGAAGCAATCATGGATGCAATGAAGAG  
AGGGCTCTGCTGTGTGCTGTGTGTGGAGCAGTCTTCGTTTCGCCCAGCCAGGAAATCCATGCCCGATTACAG  
AAGAGGAGCCAGATCTTACCAAGGTTGCAGCGAGCCAAGGTGTTTCAACGGGGGCACCTGCCAGCAGGCCCTGTA  
CTTCTCAGATTTTCGTGTGCCAGTGCCCCGAAGGATTTGCTGGGAAGTGCTGTGAAATAGATAACCAGGGCCACGTG  
CTACGAGGACCAGGGCATCAGCTACAGGGGCACGTGGAGCACAGCGGAGAGTGGCGCCGAGTGACCAACTGGAA  
CAGCAGCGCGTTGGCCCCAGAAGCCCTACAGCGGGCGGAGGCCAGACGCCATCAGGCTGGGCCTGGGGAACCACAA  
CTACTGCAGAAACCCAGATCGAGACTCAAAGCCCTGGTGCTACGTCTTTAAGGCGGGGAAGTACAGCTCAGAGTT  
CTGCAGCACCCCTGCCTGCTCTGAGGGAAACAGTGACTGCTACTTTGGGAATGGGTACGCCTACCGTGGCACGCA  
CAGCCTCACCGAGTCGGGTGCCTCCTGCCTCCCGTGGAATTCCATGATCCTGATAGGCAAGGTTTACACAGCACA  
GAACCCCAAGTGCCAGGCACTGGGCCTGGGCAAACATAATTACTGCCGGAATCCTGATGGGGATGCCAAGCCCTG  
GTGCCACGTGCTGAAGAACCGCAGGCTGACGTGGGAGTACTGTGATGTGCCCTCCTGCTCCACCTGCGGCCTGAG  
ACAGTACAGCCAGCCTCAGTTTCGCATCAAAGGAGGGCTCTTCGCCGACATCGCCTCCACCCCTGGCAGGCTGC  
CATCTTTGCCAAGCACAGGAGGTCGCCCGGAGAGCGGTTTCTGTGCGGGGCATACTCATCAGCTCCTGCTGGAT  
TCTCTCTGCCGCCCCTGCTTCCAGGAGAGGTTTCCGCCCCACCACCTGACGGTGATCTTGGGCAGAACATAACCG  
GGTGGTCCCTGGCGAGGAGGAGCAGAAATTTGAAGTCGAAAAATACATTGTCCATAAGGAATTCGATGATGACAC  
TTACGACAATGACATTGCGCTGCTGCAGCTGAAATCGGATTTCGTCCCGCTGTGCCAGGAGAGCAGCGTGGTCCG  
CACTGTGTGCCTTCCCCCGGCGACCTGCAGCTGCCGGACTGGACGGAGTGTGAGCTCTCCGGCTACGGCAAGCA  
TGAGGCCTTGCTCTCCTTTCTATTTCGGAGCGGCTGAAGGAGGCTCATGTTCAGACTGTACCCATCCAGCCGCTGCAC  
ATCACAACATTTTACTTAAACAGAACAGTCACCGACAACATGCTGTGTGCTGGAGACACTCGGAGCGGCGGGCCCCA  
GGCAAACCTTGACGACGCCTGCCAGGGCGATTTCGGGAGGCCCCCTGGTGTGTCTGAACGATGGCCGCATGACTTT  
GGTGGGCATCATCAGCTGGGGCCTGGGCTGTGGACAGAAGGATGTCCCGGGTGTGTACACCAAGGTTACCAACTA  
CCTAGACTGGATTTCGTGACAACATGCGACCGTGAACAGGAACACCCGACTCCTCAAAAGCAAATGAGATCCCGCC  
TCTTCTTCTTCAGAAGACACTGCAAAGGCGCAGTGCTTCTCTACAGACTTCTCCAGACCCACCACACCGCAGAAG  
CGGGACGAGACCCTACAGGAGAGGGAAGAGTGCAATTTCCAGATACTTCCATTTTGGAAAGTTTTCAGGACTTG  
GTCTGATTTTCAGGATACTCTGTGATGGGAAAGACATGAATGCACACTAGCCTCTCCAGGAATGCCTCCTCCCTG  
GGCAGAAAGTGGCCATGCCACCCTGTTTTTCAGCTAAAGCCCAACCTCCTGACCTGTACCGTGAGCAGCTTTGGA  
AACAGGACCACAAAAATGAAAGCATGTCTCAATAGTAAAAGATAACAAGATCTTTTCAGGAAAGACGGATTGCATT  
AGAAATAGACAGTATATTTATAGTCACAAGAGCCCAGCAGGGCCTCAAAGTTGGGGCAGGCTGGCTGGCCCGTCA  
TGTTCTCTCAAAGCACCCCTTGACGTCAAGTCTCCTTCCCTTTCCCACTCCCTGGCTCTCAGAAGGTATTCCTT  
TTGTGTACAGTGTGTAAAGTGTAATCCTTTTTCTTTATAAACTTTAGAGTAGCATGAGAGAATTGTATCATTG  
AACAACTAGGCTTCAGCATATTTATAGCAATCCATGTTAGTTTTTACTTTCTGTTGCCACAACCCTGTTTATAC  
TGACTTAAATAAATTCAGATATATTTTTTACAGTTTTTCCAAAAA



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**FIGURE 2539**

MDAMKRG LCCV LLLCGAVFVSPSQEI HARFRRGARSYQGCSEPRCFNGGTCQQALYFSDFVCQCPEGFAGKCCEI  
DTRATCYEDQGISYRG TWSTAESGAECTNWNSSALA QKPYSGRRPDAIRLG LGNHNYCRNPDRDSKPWCYVFKAG  
KYSSEFCSTPACSEGNSDCYFGNGSAYRGTHSLTESGASCLPWNSMILIGKVYTAQNPSA QALGLGKHNYCRNP  
GDAKPWCHVLKNRRLTWEYCDVPSCSTCGLRQYSQPQFRIKGGLFADIASHPWQA AIFAKHRRSPGERFLCGGIL  
ISSCWILSAAHCFQERFPPHHLTVILGR TYRVVPGE EEQKFEVEKYIVHKEFDDDTYDNDIAL LQLKSDSSRCAQ  
ESSVVRTVCLPPADLQLPDWTECELSGYGKHEALSPFYSERLKEAHVRLYPSSRCTSQHLLNRTVTDNMLCAGDT  
RSGGPQANLHDACQGDSSGGPLVCLNDGRMTLVGIISWGLGCGQKDVPGVYTKVTNYLDWIRDNM RP

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**FIGURE 2540**

GGAGGGGCGGGGCCTCCGCCACCACTCAGCTGCGGACCGAGGCGAGATGGCGGCCACCGAGGGGGTCGGGGAGG  
CTGCGCAAGGGGCGAGCCCGGGCAGCCGGCGCAACCCCGCCCCAGCCGCACCCACCGCCGCCCCAGCAGCAGC  
ACAAGGAAGAGATGGCGGCCGAGGCTGGGGAAGCCGTGGCGTCCCCCATGGACGACGGGTTTGTGAGCCTGGACT  
CGCCCTCCTATGTCCTGTACAGGGACAGAGCAGAATGGGCTGATATAGATCCGGTGCCGCAGAATGATGGCCCCA  
ATCCCGTGGTCCAGATCATTATAGTGACAAATGTAAGTTTTTTATGATTACTTCCGAGCTGTCCTGCAGCGTGA  
TGAAAGAAGTGAACGAGCTTTTAAGCTAACCCGGGATGCTATTGAGTTAAATGCAGCCAATTATACAGTGTGGCA  
TTTCCGGAGAGTTCTTTTGAAGTCACTTCAGAAGGATCTACATGAGGAAATGAACTACATCACTGCAATAATTGA  
GGAGCAGCCCAAAAATATCAAGTTTGGCATCATAGGCGAGTATTAGTGGAATGGCTAAGAGATCCATCTCAGGA  
GCTTGAATTTATTGCTGATATTCTTAATCAGGATGCAAAGAATTATCATGCCTGGCAGCATCGACAATGGGTTAT  
TCAGGTATT

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**FIGURE 2541**

AACTTTTAAAACTCTCATTGGAGTAAGTCTTTTCAAGATGATCCTCCACAATGGAGGCAGCGTTCCTACTTGTC  
ATCACACAGCTGAAGACATTGTTTCTTAGGTGTGAAATCGGGGACAAAGGACAAACAGAGACACACGGCATTGTT  
CATGGGAGGCATCGTCACCCCTCCTGGGTGTTCTGTGGGAATTTCTGTGTGAGGAAAACGTGGCCACAGGGTTGT  
GCTGTACCCACCCCTTCCCCGGCGAGATGGCCCTCGGCCTGTGCCGCTGCTTCCACCCCTCGCCACTCCATGGCAGC  
TTTTGGTCTGTTTCCGGCTCTGCCCTCTGCCCTGAACTCTCATCCGGCTTGTACCTGCCTGCTGGACCCCTCCAC  
CTGGAGGCCAGCCCATGTCTCAGGCCCAGCCCTAGCCTCTTCTCCTCAAATTCTAAGTGTTTTCTCTTTAGGTTT  
CCCTGGCTTTGTGAATGGATCATGTGTCTCTAGGTATAAACCTGACATCATCTTCCACCCGGCTTACCTCCACC  
AGATCTCCCCAGTTCTGTCTCCATCTTCTGCCTGCAGCTGCTCTGTTCTCATGGTCACTGCTGCATCACTGAGTC  
TGGACCCTTGTTATCATTTTTCAAACCTGGCCTCCTTCCCTCGTTCCCCACTTCTTAAAGTCACCTGTCCATTGCCA  
CCAGATTAAAGCTTTTCTCCAGCCAGATCACCTCTCTCTGAGAAACCTCCATTGACATGGAAACACCATTGTCTGGC  
ACACATACTCACATACCCACCTTCCCGTCTTGATCCCCACACATCTTCCAGCCTCCCCTCCCACTCCACTCCCT  
GCTCTCTCCTCCACCTCCCCATCCTCTTGTCTCCCTCCCCTCTGAATCCAGCCCAGCGGGGCTTCTCCTGCCTC  
CATCACATCACAGAAGTACCTCCTGCTTCTGGTTTTAATTAGAGCCTTCCCCGATTACATTTTCTCTGAATTTT  
TTCCTATCTACATTTGATCTGTCAATTTAAACCCCTACTTCTAAGGGAACCTTCTCTAATCTCTTATCCTCATC  
CCCAAATAGTGTTTTCTTCTCTGGGTCTTATAATGTTGGTATCAATCTCACAGCATTTAGTGCTTCTGCCTG  
GTGTGACAGTTACCTGTGTGCATGTGCAATTTCTAATTTCCACGCTAGACTGTGAGCTTCTTAAGGCAAGAATC  
ATGCCTCGTTGGTTTTCTGTATTCTCATGGTGCCAAACACAGTGCCTTCTACATTGCAGGCGCTGAATAAACATT  
TTTAAAGCAAAAAAAAAAAAAAAAAA

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**FIGURE 2542**

MALGLCRCFHPRHSMAAFGLFPALPSALNSHPACTCLLDPSTWRPAHVSGPALASSPQILSVFSLGFPGFVNGSC  
VSRYKPDIIFFPGLPPPDLPSVSIFCLQLLCSHGHCITESGPLLFSNWPSSLVPFLKSPVHCHQIKLSPAR  
SPLSEKPPLTWKHHCLAHILTYPPSRDPHTSFQPPLPLHSLSPPPPHPLVSPPL

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**FIGURE 2543A**

[illegible]

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**FIGURE 2543B**

ACCCTGGATGAGCGACTTCAAAGTGGAGTTCCTGAGAAATGAGCTGGAGATTCCCGGTCAGTATGACGGTAGGGG  
AAAGCCATTGCCAGAGTACCACGTGCGAATCGCCGGGTTTGATGAGCGGGTGACAGTCATGGCGTCTCTGCGAAG  
GCCCAAGCGCATCATCATCCGTGGCCATGACGAGAGGGAACACCCTTTCTGGTGAAGGGTGGCGAGGACCTGCG  
GCAGGACCAGCGCGTGGAGCAGCTCTTCCAGGTCATGAATGGGATCCTGGCCCAAGACTCCGCTGCAGCCAGAG  
GGCCCTGCAGCTGAGGACCTATAGCGTTGTGCCCATGACCTCCAGGTTAGGATTAATTGAGTGGCTTGAAAATAC  
TGTTACCTTGAAGGACCTTCTTTTGAACACCATGTCCCAAGAGGAGAAGGCGGCTTACCTGAGTGATCCCAGGGC  
ACCGCCGTGTGAATATAAAGATTGGCTGACAAAAATGTCAGGAAAACATGATGTTGGAGCTTACATGCTAATGTA  
TAAGGGCGCTAATCGTACTGAAACAGTCACGTCTTTTAGAAAACGAGAAAGTAAAGTGCCTGCTGATCTCTTAAA  
GCGGGCCTTCGTGAGGATGAGTACAAGCCCTGAGGCTTTCCTGGCGCTCCGCTCCCACTTCGCCAGCTCTCACGC  
TCTGATATGCATCAGCCACTGGATCCTCGGGATTGGAGACAGACATCTGAACAACCTTTATGGTGGCCATGGAGAC  
TGGCGGCGTGATCGGGATCGACTTTGGGCATGCGTTTGGATCCGCTACACAGTTTCTGCCAGTCCCTGAGTTGAT  
GCCTTTTCGGCTAACTCGCCAGTTTATCAATCTGATGTTACCAATGAAAGAAACGGGCCTTATGTACAGCATCAT  
GGTACACGCACTCCGGGCCTTCCGCTCAGACCCTGGCCTGCTCACCAACACCATGGATGTGTTTGTCAAGGAGCC  
CTCCTTTGATTGGAAAAATTTTGAACAGAAAATGCTGAAAAAAGGAGGGTCATGGATTCAAGAAATAAATGTTGC  
TGAAAAAAATTGGTACCCCCGACAGAAAATATGTTACGCTAAGAGAAAGTTAGCAGGTGCCAATCCAGCAGTCAT  
TACTTGTGATGAGCTACTCCTGGGTCATGAGAAGGCCCTGCCTTCAAAGACTATGTGGCTGTGGCACGAGGAAG  
CAAAGATCACAACATTCGTGCCCAAGAACCAGAGAGTGGGCTTTCAGAAGAGACTCAAGTGAAGTGCCTGATGGA  
CCAGGCAACAGACCCCAACATCCTTGGCAGAACCTGGGAAGGATGGGAGCCCTGGATGTGA

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**FIGURE 2544**

GGAGTCCGCGAGCGTCTGTCGGCAAGCGGCCGCTTTCCACGGTAACCGCGCGCCGGCGGGGAGGGCGTGGCGCGG  
AGCCGACGGGAACGTCCGCGCTGCGGAGCAGGGCAGGGAAGCCGGGAGGCGGGCCCCGGCCGAGCTTGTCCTTGT  
CGCGCAGGTACTCCGAGCACTATGTCGTCCCCGGCGTCGACCCCGAGCCCGCGCGGCAGCCGGCGTGGAAGGGCC  
ACCCCGCGCCAGACGCTCGGAGTGAGGATGCCAGGTCATCTCCCTCTCAGAGACGTAGAGGCGAGGATTCCACC  
TCCACGGGGGAGTTGCAGCCGATGCCAACCTCGCCTGGAGTGGACCTGCAGAGCCCTGCTGCGCAGGACGTGCTG  
TTTTCCAGCCCTCCCCAAATGCATTCTTCAGCTATCCCTCTTGACTTTGATGTTAGTTCACCACTGACATACGGC  
ACTCCAGCTCTCGGGTAGAGGGAACCCCAAGAAGTGGTGTAGGGGCACACCTGTGAGACAGAGGCTGACCTG  
GGCTCTGCACAGAAGGGCTGCAAGTGGATCTGCAGTCTGACGGGCAGCAGCAGAAGATATAGTGGCAAGTGAG  
CAGTCTCTAGGCCAAAACTTGTGATCTGGGGAACAGATGTAAATGTGGCAGCATGCAAAGAAAACTTTTCAGAGA  
TTTCTTCAGCGTTTTATTGACCCCTCTGGCTAAAGAAGAAGAAAATGTTGGCATAGATATTACTGAACCTCTATAC  
ATGCAACGACTTGGGGAGATTAATGTTATTGGTGAGCCATTTTTAAATGTGAAGTGTGAACACATCAAATCATT  
GACAAAAATTTGTACAGACAACCTCATCTCTTACCCACAGGAAGTTATTCCAATTTTGACATGGCTGTCAATGAA  
ATCTTCTTTGACCGTTACCCCTGACTCAATCTTAGAACATCAGATTCAAGTAAGACCATTCAACGCATTGAAGACT  
AAGAATATGAGAAACCTGAATCCAGAAGACATTGACCAGCTCATCACCATCAGCGGCATGGTGATCAGGACATCC  
CAGCTGATTCCCGAGATGCAGGAGGCCCTTCTTCCAGTGCCAAGTGTGTGCCACACGACCCGGGTGGAGATGGAC  
CGCGGCCGCATTGCAGAGCCCAGTGTGTGCGGGCGCTGCCACACCACCCACAGCATGGCACTCATCCACAACCGC  
TCCCTCTTCTCTGACAAGCAGATGATCAAGCTTCAGGAGTCTCCGGAAGACATGCCTGCAGGGCAGACACCACAC  
ACAGTTATCCTGTTTTGCTCACAATGATCTCGTTGACAAGGTCCAGCCTGGGGACAGAGTGAATGTTACAGGCATC  
TATCGAGCTGTGCCTATTTCGAGTCAATCCAAGAGTGAGTAATGTGAAGTCTGTCTACAAAACCCACATTGATGTC  
ATTCATTATCGGAAAACGGATGCAAAACGTCTGCATGGCCTTGATGAAGAAGCAGAACAGAACTTTTTTTCAGAG  
AAACGTGTGGAATTGCTTAAGGAACCTTCCAGGAAACCAGACATTTATGAGAGGCTTGCTTCAGCCTTGCTCCA  
AGCATTATGAACATGAAGATATAAAGAAGGGAATTTTGCTTCAGCTCTTGGCGGGACAAGGAAGGATTTTAGT  
CACACTGGAAGGGGCAAATTTTCGGGCTGAGATCAACATCTTGCTGTGTGGCGACCCTGGTACCAGCAAGTCCCAG  
CTGCTGCAGTACGTGTACAACCTCGTCCCCAGGGGCCAGTACACGTCTGGGAAGGGCTCCAGTGCAGTTGGCCTC  
ACTGCGTACGTAATGAAAGACCCTGAGACAAGGCAGCTGGTCTGCAGACAGGTGCTCTTGCTCCTGAGTGACAAC  
GGCATCTGCTGTATCGATGAGTTCGACAAGATGAATGAAAGTACAAGATCGGTATTGCATGAAGTCATGGAACAG  
CAGACTCTGTCCATTGCAAAGGCTGGGATCATCTGTGCTCAGCTCAATGCGCGCACCTCTGTCTGGCAGCAGCAAT  
CCCATGAGTCTCAGTGGAAATCTAAAAAAACAACCATGAAAACATCCAGCTGCCTCATACTTTATTATCAAGG  
TTTGATTGATCTTCTCTTGCTGGACCCTCAGGACGAAGCCTATGACAGGCGTCTGGCTCACCACCTGGTCGCA  
CTGTACTACCAGAGCGAGGAGCAGGCAGAGGAGGAGCTCCTGGACATGGCGGTGCTAAAGGACTACATTGCCTAC  
GCGCACAGCACCATCATGCGCGGGCTAAGTGAGGAAGCCAGCCAGGCTCTCATCGAGGCTTATGTAGACATGAGG  
AAGATTGGCAGTAGCCGGGGAATGGTTTCTGCATACCCTCGACAGCTAGAGTCATTAATCCGCTTAGCAGAAGCC  
CATGCTAAAGTAAGATTGTCTAACAAAGTTGAAGCCATTGATGTGGAAGAGGCCAAACGCCTCCATCGGGAAGCT  
CTGAAGCAGTCTGCAACTGATCCCCGACTGGCATCGTGGACATATCTATTCTTACTACGGGGATGAGTGCCACC  
TCTCGTAAACGGAAAGAAGATTAGCTGAAGCATTGAAAAGCTTATTTTATCTAAGGGCAAACACCAGCTCTA  
AAATACCAGCAACTTTTTGAAGATATTTCGGGGACAATCTGACATAGCAATTACTAAAGATATGTTTGAAGAAGCA  
CTGCGTGCCCTGGCAGATGATGATTTCTGACAGTGAAGTGGGAAGACCGTGCGCTTGCTCTGAAGCCTTGTGAGC  
AAGGAAGGCTCCCTGCATGTCTGCTGTCACGCCACATGGGTGTGGTCTGCATCTCAGTTGGCCGCCATCAG  
TGTAATAGAGCTTAAAGTCATGGTTTGGCTGCATAAAAAATTTCTAACTTGGGTCAATATTTGTAGTGAAGTA  
TCTGTTTTTCATTTTTTTACGTTATAAATAAAAAATACTATGCTGGCCGGGCGCGGTGGCTCACACCTGTAATCCC  
AGCATTITGGGAGGCCAATGTGGGTGGATCATGAGGTGAGGAGTTCAAGACCAGCCTAGCCAAGATGGTGAAACC  
CCGTCTCTAGTAAAGATAACAAAAAATTAGCTGGGCTTGATGGCATGCGCCTGTAATCCCAGCTACTCGGGAGGT  
TGAGGCAGGAGAATCGCTTAAACCCAGGCGGCAGAGGTTGCAGTGAGCCAAGATCGCGCCACTGCACTCCAGCCT  
CAGCAATAGAGTGAGACTGTCTC

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**FIGURE 2545**

MSSPASTPSRRGSRGRATPAQTPRSEDARSSPSQRRRGEDSTSTGELQPMPTSPGVDLQSPAAQDVLFSSPPQM  
HSSAIFLDFDVSSPLTYGTPSSRVEGTTPRSGVRGTPVRQRPDLGSAQKGLQVDLQSDGAAAEDIVASEQSLGQKL  
VIWGTDVNVAACKENFQRFIDPLAKEEENVGIDITEPLYMQRLGEINVIGEPFLNVNCEHIKSFDKNLYRQ  
LISYPQEVIPTFDMAVNEIFFDRYPDSILEHQIQVRPFNALKTKNMRNLNPEDIDQLITISGMVIRTSQLIPEMQ  
EAFFQCQVCAHTTRVEMDRGRIAEPSVCGRCHTTSMALIHNRSLFSDKQMIKLQESPEDMPAGQTPHTVILFAH  
NDLVDKVQPGDRVNVGTGIYRAVPIRVNPRVSNVKSVMYKTHIDVIHYRKTDARLHGLDEEAEQKLFSEKRVELLK  
ELSRKPDIERLASALAPSIYEHEDIKKGILLQLFGGTRKDFSHTRGKFRAEINILLCGDPGTSKSQLLYVYN  
LVPRGQYTSKGSSAVGLTAYVMKDPETRLVLQTGALVLSDNIGICIDEFDKMNESTRSVLHEVMEQQTLIAK  
AGIICQLNARTSVLAAANPIESQWNPCKTTIENIQLPHTLLSRFDLIFLLDPQDEAYDRRLAHLVALYYQSEE  
QAEELLDMAVLKDYIAYAHSTIMPRLSEEASQALIEAYVDMRKIGSSRGMVSAYPQLESIRLAEAHAKVRLS  
NKVEAIDVEEAKRLHREALKQSATDPRTGIVDISILTTGMSATSRKRKEELAEALKKLILSKGKTPALKYQQLE  
DIRGQSDIAITKDMFEEALRALADDDFLTVTGKTVRL



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**FIGURE 2546**

CGCGTCGGGCTGCAGGAGAAGATGCGGGTCTCCACAGGAGTTAAAGTTCCTCGTAATTTTCGCTTGTTGGAAGAA  
CTTGAAGAAGGACAAAAAGGAGTAGGCGACGGTACAGTTAGCTGGGGCCTTGAAGATGATGAAGATATGACACTT  
ACAAGGTGGACAGGCATGATTATTGGGCCACCAAGGACAAATTATGAAAACAGAATATATAGCCTGAAAGTAGAA  
TGTGGACCTAAATACCCAGAAGCTCCTCCGTCAGTTAGATTGTAAACAAAAATTAATATGAACGGAATAAATAAT  
TCCAGTGGGATGGTGGATGCCCCGGAGCATACCAAGTGTAGCAAAATGGCAAAATTCATATAGCATTAAGTTGTA  
CTTCAAGAGCTAAGACGTCTAATGATGTCCAAAGAAAATATGAAGCTTCCACAGCCACCAGAAGGACAAACATAC  
AACAATTAAATTTTAGTGGATCTCAAACTTGTCTTAAATCAACAACCTTCTACTCATGTTAATGTCTTGATTAAAT  
ATCACAATGCAAAATACACATTAAGTAAAAGAATTCCAGCTGGTAAACATGACCTGGACATTTGTAAGAATATAT  
TTAATATATGTACACCCATTATGTTTTTCAGGTAACAGGAGGAAAAATGCAGCACAAATTTTTTCTCTTGAAAGG  
CACTGTCATTTTAAACATAAACCTGGAGTACTCGAAATAGAATTCAGGTTTACAAGATGAAAGCGTGTGGAGAAGT  
GTCAGATGGCAGTGGGAAGCATGTGTGTTTCTAAAAAGTAAAAATCTCAAGAAAACAGAAATGGCATGCTTTACCC  
ATCTTACTTAGTGAAAGAGAGCTGCAGTTGAAATTGTTTAAAAAGTAGCAGGTACAATGAATATTGTCACAGATG  
TGTTAATTTTTGAAGCAATGTGGGTGCTGACTACTAGTAGTATCAAAAATATGTTTCAGGATTGTTTGATACCTG  
TATTTATAATAAAAAATGTTGGGGGGAGTTGATGAATTCCTGTAAAGCTGTTCTTGTGTGTTACATGTAACAG  
ACATGGTAAATATTTGTTTACAGTCTTTGTTTAAACAAACCATGCATTTAAGTTTAAAGTGAAGTCAACAAAAAGGA  
AATAGGTGTATGGATATGTGATTTTGAGATTAAAGTTAGTCTTAAATGTAAATAAAATGTGAAACGTGTCCTCA  
GAGACTGTGCCATTTCTATTATGTTGATGTATATGTACAGTACCTTGCCAGGGAAGCAAAAATTGGAATTATTGT  
AGCTTTTCATGTATACACACTTTTATTTACCCTATTTTGTGTACTTCTTGTGAATTATAATTTGCAGACTATTTT  
AGAAAAGAAATTATCTAGTTTAAATTTCTTTGGACAAGGAGTCCTAGGTATTATATTTTGAGTTTGATTTTAC  
CAGAAATAATAATATTAATAAGATCTTTGCATTCTGGCAGTTCCTTTTAGGATTATAGGTTGCAAAATTATCCAAAT  
ATATATCCCATTTTTTTAAAGCATAAAAA

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**FIGURE 2547**

MAVSTGVKVPNFRLLLEELEEGQKGVGDGTVSWGLEDDEDMTLTRWTGMIIGPPRTNYENRIYSLKVECGPKYPE  
APPSVRFVTKINMNGINNSSGMVDARSIPVLAKWQNSYSIKVVLQELRRLMMSKENMKLPQPPEGQTYNN

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**FIGURE 2548**

AGATGGGCCATCAACTGAGAAAGACCTTGACGAAAAGAAGAAAGAACCTGCAATTACATCGCAGAACAGCCCTGA  
GGCAAGAGAAGAAAGTACTTCCAGCGGCAATGTAAGCAACAGAAAGGATGAGACAAATGCTCGAGATACTTATGT  
TTCATCCTTTTCCTCGGGCACCAAGCACTTCTGATTCTGTGCGGTTGAAGTGTAGGGAGATGCTTGCTGCAGCTCT  
TCGAACAGGGGATGACTACATTGCAATTGGAGCTGATGAGGAAGAATTAGGATCTCAAATTGAAGAAGATATATA  
TCAAGAAATAAGGAATACAGACATGAAATACAAAAATAGAGTACGAAGTAGGATATCAAATCTTAAAGATGCAAA  
AAATCCAAATTTAAGGAAAAATGTCCTCTGTGGGAATATTCCTCCTGACTTATTTGCTAGAATGACAGCAGAGGA  
AATGGCTAGTGATGAGCTGAAAGAGATGCGGAAAAAAGCTTGACCAAAGAAGCCATCAGAGAGCATCAGATGGCCAA  
GACTGGTGGGACCCAGACTGACTTGTTACATGTGGCAAATGTAAAAGAAGAATTGCACTTACACACAGGTACA  
AACCCGTAGTGCTGATGAACCAATGACAACATTTGTTGTCTGTAATGAATGTGGAAATCGATGGAAGTTCTGTTG  
AGTTGGAAGAATTGGCAAAATATCTGGACCATTAAAGAAAACGGATTTTGTAACTAGCTTTAAACTAGGCCAAGCA  
ACTAGTTTTCTGCAAAATCAAATTTTAAAGCAACTTGGGTTAGACTTTGTTTTTGACCTAACATCCCTTCCTTA  
AATGCCTTCTGTAGTTTCAGATCAGTAGGGAGACCATATAATAATTTTATGGTACCTGTTTCAAAACATATTTTT  
TCGTGTTTTTATAAGTAAGTTGATATTAATTAAGTCTTGGCAATATTTCTTCTTTCTTAAAGGAAAAATATACCTT  
AACTTTTTTTCTTTTACACTGTGAAACATACACAGTAGAAATCTGTTACTCTCTGTTATTAATACATAAATGAA  
AATACATTTTTTTCCATATTGGCATGTAGCTACAAATATTAAAGGAGGAGAAAAGGTAATATAATTTTAGGTTTA  
CCAAATATGGTGTGTATTCAAATAATACTTGACCAGCTTATCTAAAATGTACATAATTTTGAGGTAGCTTATGAA  
TTTGATTTTAAATTATTATGTTTACAAGCTTGAATATTAGATATTATTTTGCATCTGTAACCTAACCGTGATCATC  
ATTTCTTGTAATTTCTTGATCATGTATATTACTTGTCTTAATAGATTTTTTGAAACAAGACTTTATTGAGATCA  
GTTTGGTTTTCTGTTAATTTACCTGTTTGACTTTATAATGTGTTTTAGTTTTGCAGAAGAAGACTGTTGTAGTT  
TAGAAGGCTTTTCATAAATCCCTCATAGGCAAAGATGAAAAGCTCCCACTATTTTTTTCCCTCTTAGGAAGAC  
ATACTGGAAAGAAAATGTTTAGCATCTTAGTGATGATAGCTATTGTAAACAGTTCATGACTAGATTTTGATTGCG  
GAAATCTATACTGACCAAGGATTAATCTTAAGGATTGTATAATTCATTAAAGCTGTGGTCTTTCCATGTGGAGAC  
TGATAGAAAATAATTTTGTCCCAAGTCTTATTTGCTGACTTTTTCTGTCATGAGTGAGATTGTTGAACAACTGA  
ATATATGGGCTATAGCAAGTAGCTTTACAGTACAGATCTTACAATTAAGTTTTGCTTTTGTAAAGTGTGTACCA  
TTTTTTCTGTTTGGAGTAAGACAAAAATTGTTTTGACATAGGTTCCCTAGGGTACACTTGCTCTAGCATACTTTA  
AAGGCCACTGTTGCAAAGTCTACATTTTATGCTGAATCTGCATTCTGTCAGGCACCCGTAGAAAGACCTCAGTAC  
ATGCTTTGCACTCTCCTTTGCTCCCTTTTTCCAATTTCTTATTGCATATCATTGTTGTAATACAGAAAGCAGC  
ATTTTTAAATGTCCGTGTTAAGAATTGGCCCACTGGTACCAACTCACCTCTATTTTGTGAGTTTATAGTTGAAGA  
TTTTGTTTTATTTCAAAAACAAAGTACATTTTTGAAATAATGTTTCAGAATAAAATAATCTCACTTTTAAGTGAT  
CCATTTTAAATTTGTAATTCAATAAAGTTTTTTTTTGTGTTAAACAT

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**FIGURE 2549**

MLAAALRTGDDYIAIGADEEELGSQIEEDIYQEIRNTDMKYKNRVRSRISNLKDAKNPNLRKNVLCGNIPDLFA  
RMTAEEMASDELKEMRKNLTKEAIREHQMAKTGGTQTDLFTCGKCKKKNCTYTQVQTRSADEPMTTFVVCNECGN  
RWKFC

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**FIGURE 2550**

CGGCGGGCGAGGGGCAGGGCAGGGCGGACCCCTGGACGCGCGGGCGCGCGCGGAAGGTAGCGCGGGGGCCGCGTTGG  
CGCGCACGCGCCTGAGCGTGCGCCCGGTGGGGCCGGCCGGGACTCGCCGCTCGCACGCCCTTGGGCCGCGGGCCGG  
GCGCCCGCTCTTCCTTCCGCTTGCCTGTGAGCTGAGGCGGTGTATGTGCGGCAATAACATGTCAACCCCGCTGC  
CCGCCATCGTGCCCGCCGCCCGGAAGGCCACCGCTGCGGTGATTTTCCTGCATGGATTGGGAGATACTGGGCACG  
GATGGGCAGAAGCCTTTGCAGGTATCAGAAGTTCACATATCAAATATATCTGCCCGCATGCGCCTGTTAGGCCTG  
TTACATTAAATATGAACGTGGCTATGCCTTCATGGTTTGATATTATTGGGCTTTCACCAGATTCACAGGAGGATG  
AATCTGGGATTAAACAGGCAGCAGAAAATATAAAAGCTTTGATTGATCAAGAAGTGAAGAATGGCATTCTTCTA  
ACAGAATTATTTTGGGAGGGTTTTCTCAGGGAGGAGCTTTATCTTTATATACTGCCCTTACCACACAGCAGAAAC  
TGGCAGGTGTCACCTGCACTCAGTTGCTGGCTTCCACTTCGGGCTTCCTTTCCACAGGGTCCTATCGGTGGTGCTA  
ATAGAGATATTTCTATTCTCCAGTGCCACGGGGATTGTGACCCTTTGGTTCCCTTGATGTTTGGTTCTCTTACGG  
TGGAAAACTAAAAACATTGGTGAATCCAGCCAATGTGACCTTTAAACCTATGAAGGTATGATGCACAGTTCGT  
GTCAACAGGAAATGATGGATGTCAAGCAATTCATTGATAAACTCCTACCTCCAATTGATTGACGTCACCTAAGAGG  
CCTTGTTGTAAGAAGTACACCAGCATCATTGTAGTAGAGTGTAACCTTTTCCCATGCCAGTCTTCAAATTTCTAA  
TGTTTTGCAGTGTTAAATGTTTTGCAAATACATGCCAATAACACAGATCAAATAATATCTCCTCATGAGAAATT  
TATGATCTTTTAAAGTTTCTATACATGTATTCTTATAAGACGACCCAGGATCTACTATATTAGAATAGATGAAGCA  
GGTAGCTTCTTTTTTCTCAAATGTAATTCAGCAAAATAATACAGTACTGCCACCAGATTTTTTATTACATCATT  
GAAAATTAGCAGTATGCTTAATGAAAATTTGTTTCAGGTATAAATGAGCAGTTAAGATATAAAACAATTTATGCATG  
CTGTGACTTAGTCTATGGATTTATTCCAAAATGCTTAGTCACCATGCAGTGTCTGTATTTTTATATATGTGTTT  
ATATATACATAATGATTATAATACATAATAAGAATGAGGTGGTATTACATTATTCCTAATAATAGGGATAATGCT  
GTTTATTGTCAAGAAAAAGTAAAATCGTTCTCTTCAATTAATGGCCCTTTTATTTTGGGACCAGGCTTTTATTTT  
CCCTGATATTATTTCTATTTAATACTCTTTTCTCTCAAGAAAAAAAAAAAAAGTTTGTTTTTTCTTTATTGTCCTT  
CATAGCAGGCCAAGTATTGCCTCTCTGCAATAGACAGCTACTGTCAATACATGCTGTAATTTGACATTCTGGGTC  
ACAGATATAAGGTATTTAAATCTATTTATGCTTTATAGAGAAACCAGACATTAAAACTTCATGCACTACTTATT  
TCGAATTACTGTACCTTATCCAAATTTACACCTAGCTATTAGGATCTTCAACCCAGGTAACAGGAATAATTCGT  
GGTTTCATTTTTCTGTAAACAACGTAAAGAATAATTAGATCATATTCTAGTATGTTCTGAAATATCTTTAAGACT  
GATCTTAAAACTAACTTCTAAGATGATTTTCATCTTCTCATAGTATAGAGTTTACTTTGTACACGTTTGAAACCA  
ACTACTGTAGAAGATGAGGAATCTATTGTAATTTTTTGCTTTATTTTCATCTGCCAGTGGACTTATTTGAAATTT  
TCACTTTAGTCAAATTTTTTTGTATTAGTTTTTGATGCAGACATAAAAAATAGCAATCATTTTAAATTGTCAA  
ATTTCCAGATTACTGGTAAAAATTTTGAAGCAAACTTATGGGTAATAAAGGCTAGTCAGAACCCCTATACCAT  
AAAGTGTAGTTACCATACAGATTAATATGTAGCAAAAAATGTATGCTTGATATTTCTCAACTGTGTTAATTTTTCT  
GCTGTATTCCAGCTGACCAAAACAATATTAAGAATGCATCTTTATAAATGGGTGCTAATTGATAATGGAAATAAT  
TTAGTAATGGACTATACAGGATGTTAATAATGAAGCCATATGTTTATGTCTGGATTTAAAAATTTTAAACAATCA  
TTACTATGTCATTTTTCTTTACCTTGAAGACATAAACTGTTATTTCACTTCTACAAATCAGCAAGATATTATT  
TATGGCAAGAAATATTCATTGAAATATTGTGCTGTAACATGGGAAAGTGAAATGTTTTTCATGGTTTCTATCA  
ATGTGAAATAAAATTTAATTCTGAAAAA

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**FIGURE 2551**

MCGNNMSTPLPAIVPAARKATAAVIFLHGLGDTGHGWAEAFAGIRSSHIKYICPHAPVRPVTLMNVAMPSWFDI  
IGLSPDSQEDESIGIKQAAENIKALIDQEVKNGIPSNRIILGGFSQGGALSLYTALTQQKLAGVTALSCWLPLRA  
SFPQGPIGGANRDISILQCHGDCDPLVPLMFGSLTVEKLKTLVNPANVTFKTYEGMMHSSCQQEMMDVKQFIDKL  
LPPID

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**FIGURE 2552**

CTTCTTTTTGAGGAAGACGCGGTCGTAAGGGCTGAGGATTTTTGGTCCGCACGCTCCTGCTCCTGACTCACCGC  
TGTTGCTCTCGCCGAGGAACAAGTCGGTCAGGAAGCCGCGCGCAACAGCCATGGCTTTTAAGGATACCGGAAA  
AACACCCGTGGAGCCGGAGGTGGCAATTCACCGAATTCGAATCACCTAACAAGCCGCAACGTAAAATCCTTGGA  
AAAGGTGTGTGCTGACTTGATAAGAGGCGCAAAAGAAAAGAATCTCAAAGTGAAAGGACCAGTTCGAATGCCTAC  
CAAGACTTTGAGAATCACTACAAGAAAACTCCTTGTGGTGAAGGTTCTAAGACGTGGGATCGTTTCCAGATGAG  
AATTCACAAGCGACTCATTGACTTGCACAGTCCTTCTGAGATTGTTAAGCAGATTACTTCCATCAGTATTGAGCC  
AGGAGTTGAGGTGGAAGTCACCATTGCAGATGCTTAAGTCAACTATTTAATAAATTGATGACCAGTTGTAAAA  
AAAAAAAAAAAAA

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**FIGURE 2553**

MAFKDTGKTPVEPEVAIHRIRITLTSRNVKSLEKVCADLIRGAKEKNLKVKGPFVRMPTKTLRITTRKTPCGEGSK  
TWDRFQMRIHKRLIDLHSPSEIVKQITSISIEPGVEVEVTIADA



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**FIGURE 2554**

ATGATGAAGGGAACGTCATCATTGGAAAGCATTGCAATAAGACGTACACGTTATGCCACCACTGTGGCTCTAAG  
GCCTACCACCTTCAGAAGTCGACCTATGGCAAATGTGGCTACACTGCCAAGCGCAAGAGAAAGTATAACTGGAGT  
ACCAAGGCTAAAAGACGAAATACCACCAGAACTGGTCAAATGAGGCACCTAAAAATTGTATACCATAGATTCAGG  
CATGGATTCCGTGAAGGAACAACACCTAAACCCAAGAGGGCAGCTGTTGCAGCATCCAGTTCATCTTAA

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**FIGURE 2555**

MMKGTSSFGKHCKNTYTLCHHCGSKAYHLQKSTYGKCGYTAKRKRKYNWSTKAKRRNTTRTGQMRHLKIVYHRFR  
HGFREGTTPKPKRAAVAASSSS

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**FIGURE 2556**

CCCTGGTGTGATTCCATCCTGTGTGGCTGTTCTCTGGAGCAGCATTTCGTTTATCTTCGTCCGCCTTCTCTCCTAC  
CTAAGTGCGTGCTGCCTCCCGATGGAAGATCTGATGGACGTGGACATGAGCTCCCTGAGGCCCCAGAACTATCTT  
TTTGGTTGTGAATAAAGGCTGACAAAGATTGTCACTTTAAGGTGGATAATGATGAAAATGAGCGCCAGTTGTCT  
TTAAGAACGGTCAGTTTAGGGGCTGGTGCAAAGGATGAATTGCACATTGTTGAAGCAGAGGCAATGAATTACGAA  
GGCAGCCCAATTAAAGTAACACTGGCAACTTTGAAAATGTCTGTACAGCCAACGGTTTCCCTTGGGGGCTTTGAA  
ACAACACCACCAGTAGTCTTAAGGTTGAAGTGTGGTTCAGGGCCAGTGCATATTAGTGGACAGCACTTAGTAGCT  
GTGGAGGAAGATGCAGAGTCAGAAGATGAAGAGGAGGAGGATGATGATGAAGATGATGATGATGATGATTTTAATGAT  
GAGGAAGCTGAAGAAAAAGTGCCAGTGAAGCAATCTATACAAGATACTCCAGCCAAAAATGCACAAAAGTCAAAT  
CAGAATGGAAAAGACTCAAACCATCAACACCAAGATCAAAAGGACAAGAATCTTTCAAAAACAGGAAAAAAC  
TCCTAAAACACCAAAAGGACCTAGTTCTGTAAAAGACAT

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**FIGURE 2557**

GATTCCATCCTGTGTGGCTGTTCTCTGGAGCAGCATTTCGTTTATCTTCGTCCGCCCTTCTCTCCTACCTAAGTGCG  
TGCTGCCTCCCGATGGAAGATCTGATGGACGTGGACATGAGCTCCCTGAGGCCCCAGAACTATCTTTTTGGTTGT  
GAACTAAAGGCTGACAAAGATTGTCACTTTAAGGTGGATAATGATGAAAATGAGCGCCAGTTGTCTTTAAGAACG  
GTCAGTTTAGGGGCTGGTGCAAAGGATGAATTGCACATTGTTGAAGCAGAGGCAATGAATTACGAAGGCAGCCCA  
ATTAAAGTAACACTGGCAACTTTGAAAATGTCTGTACAGCCAACGGTTTCCCTTGGGGGCTTTGAAACAACACCA  
CCAGTAGTCTTAAGGTTGAAGTGTGGTTCAGGGCCAGTGCATATTAGTGGACAGCACTTAGTAGCTGTGGAGGAA  
GATGCAGAGTCAGAAGATGAAGAGGAGGAGGATGTGAACTCTTAAGTATATCTGGAAAGCGATCTGCCCTCGGA  
GGTAGTAGCAAGCTTCCACAGAAAAAAGTAAAAGTGTCTGTATGAAGATGATGATGATGATGAAGAAGATGAT  
GATGATGAAGATGATGATGATGATTTTAATGATGAGGAAGCTGAAGAAAAGTGCCAGTGAAGCAATCTATACAA  
GATACTCCAGCCAAAAATGCACAAAAGTCAAATCAGAATGGAAAAGACTCAAAACCATCAACACCAAGATCAAAA  
GGACAAGAATCTTTCAAAAAACAGGAAAAAACTCCTAAAACACCAAAAGGACCTAGTTCTGTAAAAGACATTAA  
AGCAAAAATGCAAGCAAGTATAGAAAAAGGTGGTTCTCTTCCCAAAGTGGAAGCCAAGTTCATCAATTACGTGAA  
GAATTGCTTCCGGATGACTGACCAAGAGGCTATTCAAGATCTCTGGCAGTGGAGGAAGTCTCTTTAAGAAAATAG  
TTTAAACAATTTGTTAAAAATTTCCGTCTTATTTCAATTTCTGTAACAGTTGATATCTGGCTGTCCTTTTTATAA  
TGCAGAGTGAGAACTTTCCCTACCGTGTGTTGATAAATGTTGTCCAGGTTCTATTGCCAAGAATGTGTTGTCCAAA  
ATGCCTGTTTAGTTTTTAAAGATGGAAGTCCACCCTTTGCTTGGTTTTTAAGTATGTATGGAATGTTATGATAGGA  
CACAGTAGTAGCGGTGGTCAGACATGGAATCGTGGGGAGACAAAAATATACCTGTGAAATAAACTCAGTATTT  
TAAT

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**FIGURE 2558**

GGAGCAGCATTTCGTTTATCTTCGTCCGCCTTCTCTCCTACCTAAGTGCGTGCTGCCTCCCGATGGAAGATCTGAT  
GGACGTGGACATGAGCTCCCTGAGGCCCCAGAACTATCTTTTTGGTTGTGAACTAAAGGCTGACAAAGATTGTCA  
CTTTAAGGTGGATAATGATGAAAATGAGCGCCAGTTGTCTTTAAGAACGGTCAGTTTAGGGGCTGGTGCAAAGGA  
TGAATTGCACATTGTTGAAGCAGAGGCAATGAATTACGAAGGCAGCCCAATTAAAGTAACACTGGCAACTTTGAA  
AATGTCTGTACAGCCAACGGTTTCCCTTGGGGGCTTTGAAACAACACCACCAGTAGTCTTAAGGTTGAAGTGTGG  
/TTCAGGGCCAGTGACATATTAGTGGACAGCACTTAGTAGCTGTGGAGGAAGATGCAGAGTCAGAAGATGAAGAGGA  
GGAGGATGTGAACTCTTAAGTATATCTGGAAAGCGATCTGCCCTCGGAGGTAGTAGCAAGCTTCCACAGAAAAA  
AGTAAACTTGCTGCTGATGAAGATGATGATGATGATGAAGAAGATGATGATGATGAAGATGATGATGATGATTT  
TAATGATGAGGAAGCTGAAGAAAAAGTGCCAGTGAAGAAAGGACAAGAATCTTTCAAAAAACAGGAAAAAACTC  
CTAAACACCAAAAGGACCTAGTTCTGTAAAAGACATTAAAGCAAAAATGCAAGCAAGTATAGAAAAAGGTGGTT  
CTCTTCCCAAAGTGGAAGCCAAGTTCATCAATTACGTGAAGAATTGCTTCCGGATGACTGACCAAGAGGCTATT  
AAGATCTCTGGCAGTGGAGGAAGTCTCTTTAAGAAAATAGTTTAAACAATTTGTTAAAAATTTCCGTCTTATTT  
CATTTCTGTAACAGTTGATATCTGGCTGTCTTTTTATAATGCAGAGTGAGAACTTTCCCTACCGTGTGATAA  
ATGTTGTCCAGGTTCTATTGCCAAGAATGTGTTGTCCAAAATGCCTGTTTAGTTTTTAAAGATGGAACCTCACCC  
TTTGCTTG

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**FIGURE 2559**

GCTCCTTCTAGGATCTCCGCCTGGTTCGGCCCCGCCTGCCTCCACTCCTGCCTCCACCATGTCCATCAGGGTGATC  
CAGAAGTCCTACAAGGTGTCCACCTCTGGCCCCCGGGCCTTCAGCAGCCGCTCCTACACGAGTGGGCCCCGGTGCC  
CACATCAGCTCCTCGAGCTTCTCCTGAGTGGGCAGCAGCAGCTTTCGGGGTGGCCTGGGAGGCGGCTATAGTGGG  
GCCAGCGGCATGGGAGGCATCACCGCAGTCATGGTCAACCAGAGCCTACTGAGCCCCCTTGTCCTGGAGGTGGAC  
CCCAACATCCAGGCTGTGTGCACCCAGGAGAAGGAGCAGATCAAGACCCTCAACAACAAGTTTGCCTCCTTCACA  
GACAAGGTACGGTTTCTGGAGCAGCAGAACAAGATGCTGGAGACCAAGTGGAGCCTCCTGCAGCAGCAGAAGATG  
GCTCGGAGCAACATGGACAACATGTTTCGAGAGCTACATCAACAACCTTAGGCGGCAGCTGGAGACTCTGGGCCAG  
GAGAAGCTGAAGCTGGAGGCGGAGCTTGGCAACATGCAGAGGCTGGTGGAGGACTTCAAGAACAAGTATGAGGAT  
GAGATCAATAAGCATACAGAGATGGAGAATGAATTTGTCTCATCAAGAAGGATGTGGATGAAGCTTACATGAAC  
AAGGTAGAGCTGGAGTCTCGCCTGGAAGGGCTGACTGACGAGATCAACTTCCTCAGGCAGCTGTACGAAAAGGAG  
ATCCGGGAGCTGCAGTCCCAGATCTCGGACACATCTGTGGTGCTGTCCATGGACAACAGCCGCTCCCTGGACATG  
GACAGCATCATTGCTGAGGTCAAGGCACAGTACGAGGATATTGCCAACCAGAGCGGGCTGAGGCTGAGAGCATG  
TACCAGATCAAGTATGAGGAGCTGCAGAGTCTGGCTGGGAAGCACGGGGATGACCTGTGGCGCACAAAGACTGAG  
ATCTCTGAGATGAACTGGAACATCAGCCAGCTCCAGGCTGAGATTGAGGGCCTCAAAGGCCAGAGGGCTTCCCTG  
GAGGCCGCCATTGCAGATGCCGAGCAGCGTGGAGAGCTGGCCATTAAGGATGCCAACGCCAAGTTGTCCGAGCTG  
GAGGCTGCCCTGCAGCGGGCCAAGCAGGACATGGCACGGCAGCTGCGTGAGTACCAGGAGCTGATGAACGTCAAG  
CTGGCCCTGGACATCGAGATCGCCACCTACAGGAAGCTGCTGGAGGGCAAAGAGAGCCGGCTGAAGTCTGGGATG  
CAGAACATGAGTATTATACGAAGACCACCAGCGGCTATGCAGGTGGTCTGAGCTCGGCCTATGGGGGCCTCACA  
AGCCCCGGCCTCAGCTACGGCCTGGGCTCCAGCTTTGGCTCTGGCGCAGGCTCCAGCTCCCTCAGCCGCACCAGT  
TCCTCCAGGGCCGTGGTTGTGAAGAAGATCGAGACATGTGATGGGAAGCTGGTGTCCGAGTCCTCTGACATCCTG  
CCCAAGTGAACAGCTGTGGCAGCCCCCTCCCAGCTACCCCTCCTGCGCTGCCCCAGAGCCTGAGAAGGAGGCCAC  
TATTCAGGGTAGCACTGGGAACAGGAGACCCACCTGAGGCTCAGCCCTAGCCCTCAGCCCACCTGGGGAGTTTAC  
TACCTGGGGACCCCCCTTGCCCATGCCTCCAGCTACAAAACAATTCAATTGCTTTTTTTTTTGGTCCAAAATAAAAC  
CTCAGCTAGCTCTGCCAA

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**FIGURE 2560**

GAGTGGGCAGCAGCAGCTTTCGGGGTGGCCTGGGAGGCGGCTATAGTGGGGCCAGCGGCATGGGAGGCATCACCG  
CAGTCATGGTCAACCAGAGCCTACTGAGCCCCCTTGTCTGGAGGTGGACCCCAACATCCAGGCTGTGTGCACCC  
AGGAGAAGGAGCAGATCAAGACCCTCAACAACAAGTTTGCCTCCTTCACAGACAAGGTACGGTTCCTGGAGCAGC  
AGAACAAGATGCTGGAGACCAAGTGGAGCCTCCTGCAGCAGCAGAAGATGGCTCGGAGCAACATGGACAACATGT  
TCGAGAGCTACATCAACAACCTTAGGCGGCAGCTGGAGACTCTGGGCCAGGAGAAGCTGAAGCTGGAGGCGGAGC  
TTGGCAACATGCAGAGGCTGGTGGAGTCTGGGATGCAGAACATGAGTATTCATACGAAGACCACCAGCGGCTATG  
CAGGTGGTCTGAGCTCGGCCTATGGGGGCCTCACAAGCCCCGGCCTCAGCTACGGCCTGGGCTCCAGCTTTGGCT  
CTGGCGCAGGCTCCAGCTCCCTCAGCCGCACCAGTTCCTCCAGGGCCGTGGTTGTGAAGAAGATCGAGACATGTG  
ATGGGAAGCTGGTGTCCGAGTCCTCTGACATCCTGCCCAAGTGAACAGCTG

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**FIGURE 2561**

CTGGGAGGCGGCTATAGTGGGGCCAGCGGCATGGGAGGCATCACCGCAGTCATGGTCAACCAGAGCCTACTGAGC  
CCCCTTGTCCTGGAGGTGGACCCCAACATCCAGGCTGTGTGCACCCAGGAGAAGGAGCAGATCAAGACCCTCAAC  
AACAAGTTTGCTCCTTCACAGACAAGGTACGGTTCTGGAGCAGCAGAACAAAGATGCTGGAGACCAAGTGGAGC  
CTCCTGCAGCAGCAGAAGATGGCTCGGAGCAACATGGACAACATGTTCGAGAGCTACATCAACAACCTTAGGCGG  
CAGCTGGAGACTCTGGGCCAGGAGAAGCTGAAGCTGGAGGCGGAGCTTGGCAACATGCAGAGGCTGGTGGAGGAC  
TTCAAGAACAAGTATGAGGATGAGATCAATAAGCATAACAGAGATGGAGAATGAATTTGTCCTCATCAAGAAGGAT  
GTGGATGAAGCTTACATGAACAAGGTAGAGCTGGAGTCTCGCCTGGAAGGGCTGACTGACGAGATCAACTTCCTC  
AGGCAGCTGTACGAAAAGGAGATCCGGGAGCTGCAGTCCCAGATCTCGGACACATCATTGCTGAGGTCAAGGCAC  
AGTACGAGGATATTGCCAACC AAAGACGGGCTGAGGCTGAGAGCATGTACCAGATCAAGTATGAGGAGCTGCAGA  
GTCTGGCTGGGAAGCACGGGGATGACCTGTGGCGCACAAAGACTGAGATCTCTGAGATGAACTGGAACATCAGCC  
AGCTCCAGGCTGAGATTGAGGGCCTCAAAGGCCAGAGGGCTTCCCTGGAGGCCGCCATTGCAGATGCCGAGCAGC  
GTGGAGAGCTGGCCATTAAGGATGCCAACGCCAAGTTGTCCGAGCTGGAGGCTGCCCTGCAGCGGGCCAAGCAGG  
ACATGGCACGGCAGCTGCGTGAG



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**FIGURE 2562**

TCTCCGGTCCGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAAGGGCCGCGGCCACGTG  
CAGCCTATTCGCTGCACTAACTGTGCCCAGTGCATGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTGAAAC  
ATAGTGGAGGCCGCAGCAGTCAGGGACATTTCTGAAGCGAGCATCTTTGATGCCTATTTGCTTCCCAAGCTGTAT  
GTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCTGCAAG  
GACCGAACACCCCCACCCAATTTAGACCTGCGGGTGCTGCCCCACGTCCCCCACCAAAGCCCATGTAAGGAGCT  
GAGTTCTTAAAGACTGAAGACAGGCTATTCTCTGGAGAAAAATTAAATGGAAACTGTACTTA

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**FIGURE 2563**

AGGCGGGGGCGGTGCCATGACGCGCCTCGGGGGCGGTCTCGGGCGCGCACCGCTCTCTTACACTCGGGCCTCAG  
AAGTCCGTGCCAGTGACCGGAGGCGGCGGCGGCGAGCGGTTCCCTTGTTGGGCTAGAAGAATCCTGCAAAAATGTCT  
CTCTATCCATCTCTCGAAGACTTGAAGGTAGACAAAGTAATTCAGGCTCAAACCTGCTTTTTCTGCAAACCCTGCC  
AATCCAGCAATTTTGTGAGAAGCTTCTGCTCCTATCCCTCACGATGGAAATCTCTATCCCAGACTGTATCCAGAG  
CTCTCTCAATACATGGGGCTGAGTTTAAATGAAGAAGAAATACGTGCAAATGTGGCCGTGGTTTTCTGGTGCACCA  
CTTCAGGGGCGAGTTGGTAGCAAGACCTTCCAGTATAAACTATATGGTGGCTCCTGTAACCTGGTAATGATGTTGGA  
ATTCGTAGAGCAGAAATTAAGCAAGGGATTTCGTGAAGTCATTTTGTGTAAGGATCAAGATGGAAAAATTGGACTC  
AGGCTTAAATCAATAGATAATGGTATATTTGTTTCAGCTAGTCCAGGCTAATTCTCCAGCCTCATTGGTTGGTCTG  
AGATTTGGGGACCAAGTACTTCAGATCAATGGTGAACCTGTGCAGGATGGAGCTCTGATAAAGCGCACAAAGGTG  
CTCAAACAGGCTTTTGGAGAGAAGATTACCATGACCATTTCGTGACAGGCCCTTTGAACGGACGATTACCATGCAT  
AAGGATAGCACTGGACATGTTGGTTTTATCTTTAAAAATGGAAAAATAACATCCATAGTGAAAGATAGCTCTGCA  
GCCAGAAATGGTCTTCTCACGGAACATAACATCTGTGAATCAATGGACAGAATGTCATTGGATTGAAGGACTCT  
CAAATTGCAGACATACTGTCAACATCTGGGACTGTAGTTACTATTACAATCATGCCTGCTTTTATCTTTGAACAT  
ATTATTAAGCGGATGGCACCAAGCATTATGAAAAGCCTAATGGACCACACCATTCCTGAGGTTTAAAATTCACGG  
CACCATGGAAATGTAGCTGAACGTCCTCAGTTTCTCTTTGGCAACTTCTGTATTATGCACGTGAAGCCTTCCC  
GGAGCCAGCGAGCATATGCTGCATGAGGACCTTTCTATCTTACATTATGGCTGGGAATCTTACTCTTTCATCTGA  
TACCTTGTTTCAGATTTCAAAATAGTTGTAGCCTTATCCTGGTTTTACAGATGTGAACTTTCAAGAGATTTACTG  
ACTTTCTAGAAATAGTTTCTCTACTGGAAACCTGATGCTTTTATAAGCCATTGTGATTAGGATGACTGTTACAGG  
CTTAGCTTTGTGTGAAAACCAAGTCACCTTTCTCCTAGGTAATGAGTAGTGCTGTTTCATATTACTTTAGTTCTATA  
GCATACTTGCATCTTTAACATGCTATCATAGTACATTTAGAATGATTGCCCTTTGATTTTTTTTTTAAATCTGTG  
TGTGTGTGTGTAATGCAATTAAGAACACTGGTTTCATTCCATGTAAGCATTAAACAGTGTATGTAGGTTTCA  
AGAGATTGTGATGATTCTTAAATTTTAACTACCTTCACTTAATATGCTTGAACCTGTCGCCTTAACTATGTTAAGC  
ATCTAGACTAAAAGCCAAAATATAATTATTGCTGCCTTTCTAAAACCCAAAATGTAGTTCTCTATTAACCTGAA  
ATGTACACTAGCCAGAACAGTTTAATGGTACTTACTGAGCTATAGCATAGCTGCTTAGTTGTTTTTGGAGATTTT  
TTAGTCAACACATAATGGAACTTCTTTCTTCTAAAAGTTGCCAGTGCCACTTTTAAGAAGTGAATCACTATATG  
TGATGTAAAAGTTATTACACTAAACAGGATAAACTTTTACTCCCCTTTTGTTCATTTGTGGATTAAAGTGGTATA  
ATACTTAATTTTGGCATTGTGACTCTTAAGATTATGTAACCTAGCTACTTTGGGATGGTCTTAGAATATTTTTCTG  
ATAACTTGTTCTTTTCTGACTCCTCCTTGCAAACAAAATGATAGTTGACACTTTATCCTGATTTTTTTCTTCT  
TTTTGGTTTATGTCTATTCTAATTAAATATGTATAAATAAAGTTACATTTTAGTCTGTC

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**FIGURE 2564**

TGCTGCCTACAGCGTCTGCTCCACCCCTGCTGCCCCGCTGGAGCCCTAGTGGCTCCCTCGCTTGGCAACAACACAA  
GTCTCATGGCCGCAGCAGCTGCAGCTGCAGCAGTGGCAGCAGCAGGCGGACCTCCAGTCCTCACTGCCCAGACCA  
ACCCCTTCCTCAGCCTGTCGGGAGCAGACGGCAGTGGCGGTGGCCCCAAAGGAGGGACCGCTGACAAAGGAGCCT  
CAGCCAACCAGGAAAAAGGCTAAATCCACCCTTACCCCTCCTGACCCCCCAAGTGGAGGGAACAGATCCTGGCCT  
GAGGGGTCTTAGCCTGGAGCAGGCGCCTGCGCCCAGACCCTGGAGAGCCTTGACCCAGAGCCTGTGCTGAGGTCC  
AGGGAGTGTGGAGAGCTCCTGGTGTCAAGGACTGAGACTGAGAGGGGAGCCCCCTCCATCTGGCCCCCTTCCCTT  
TCTGTACTGTCCGCTTTGTGAGGCTCAGAGGAAGGACAGTCTGCAAGCCCACCTAGGAGGTCCATCCCCAGCAAA  
TGTTTTGGAGGTCCCCCAGAGAGCACAGTGGGCCATGGAAGAAGTAGGGGGTTGGTTGGACCTGTCACATGAAA  
TGGATCAGCACTTGAATGGGGAGAAGTGGAGGGAGAGGCCCTGGGCCTGTCCCTGCGGGGAAATCTTTTATGGAA  
GAAGGGCTGGACCCACTTTACCTGCAGTTTCTTCCCAGCTCAGGCAGATGGCAGAAGGGACCCCTTGGACTTTTT  
CTCGCCATCCCTCCCCCAGCGCAGGGGCACAAGCTGAGCTTGTAAAAGCCCACAGATGTTGGGGGCTGGAGAAG  
GGGCAGGAGAGCATCACACTCAGCCCCAGCCTCCTCAACCTCTTGGGGCCCTGTGATGGGGAGGAGACGGCAGGT  
GCGGGGAGGCTCCGGCCTTCCTTGGTGCCCCGCCCTTTGTTTGCACCTATTGGACTTAGGAGTGCCGAGGGTGGGG  
AGATGGAGCTGCCTGACTCAGTGTGTGAGTGTGTGTGCGTGCATGTGTGTGTGTGTGTGTGTGTATGTGTCTGTC  
TGCCTGTCTCTCTCCTCCTGGACCCAGGGCAGCCAAGGGCAGGGATAGGTGCAGTGGTCAGATGAAGCAGTGCCA  
GAGAGGGGACCTCCCAGCTCTTATTTGCACCCTCCCCACCTCACCAACTTTGGTCCCTCTCTGGGGGCATGAATG  
GTTAACAACACCAGAGCAGTACTCCAATATTGGAGAGTCACTGGGGGCACAGGGCTTTGAATCAGGGTAGTATC  
CTGCCTTCCCTCCCCTGACCCACATGGTCTCAGGGCCCCCTTAGGGCCCCCTACCCCACTGATAGCTTCCTCCT  
TCTCTGGCACAAGGGGAGCCCCAGGGCTTGGGGGAGGGCGTAAGGTGGGGGGAAATGCCACAGCTTTTAGCAAAA  
GCCTCCCTCCCAGAATTAGCCAGCTTGCCTCCTGCACCCCCACCCCCACCAACCAGGGGAGCCACTAAGCTGACTA  
ACAACGTCCCCCTACCCACCAGCTATTTCCCCAGTGTAGAGTGGGCAATTCTCACCTTCAAAGAGTCCCCACCT  
GCCCAGGCCTTTGGCACAGAGGCTGAGTGGACAGTCAGGAGAGAGGCGAGAGGCAAGGCGAAGCCGATGTCCCTG  
TTTCAGTTGCACTGGGGTTGGAGCCCAGGGTAGGGGTTTCCAGCTTCCCCAGGCTCCGGCCTTGTCAGTCTCTTT  
GCATGTGTGGATTTTTCTGTGTGTTTCTGTTTGGGTTTTTGTGTTGGGTATTTTTTTTTTTTTTAATAAAGAAA  
AGAAGATGTGTATATTTTTTGCAACGAC

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**FIGURE 2565**

CAAGAGTCTAGGTAAGAGTTTGTTCCTGCGGAGGGTCAAGGCCACACCCGGAAACCTAGCGAGGTAAAG  
TTGCGTCTTGGTTGTAGAGACGACAACCTTCTCCGCTTCCTCGGCGATGCGCGCGTCCGGGAGCGGTATGGCCCAG  
AAAACCTGGGAACCTGGCCAACAACATGCAGGAAGCTCAGAGTATCGATGAAATCTACAAATACGACAAGAAACAG  
CAGCAAGAAATCCTGGCGGCGAACCTTGGGACTAAGGATCACCATTACTTTAAGTACTGCAAAATCTCAGCATTG  
GCTCTTCTGAAGATGGTGATGCATGCCAGATCGGGAGGCAATTTGGAAGTGATGGGTCTGATGCTAGGAAAGGTG  
GATGGTGAAACCATGATCATTATGGACAGTTTTGCTTTGCCTGTGGAGGGCACTGAAACCCGAGTAAATGCTCAG  
GCTGCTGCATATGAATACATGGCTGCATACATAGAAAATGCAAAACAGGTTGGCCGCCTTGAAAATGCAATCGGG  
TGGTATCATAGCCACCCTGGCTATGGCTGCTGGCTTTCTGGGATTGATGTTAGTACTCAGATGCTCAATCAGCAG  
TTCCAGGAACCATTTGTAGCAGTGGTGATTGATCCAACAAGAACAATATCCGCAGGGAAAGTGAATCTTGGCGCC  
TTTAGGACATACCCAAAGGGCTACAAACCTCCTGATGAAGGACCTTCTGAGTACCAGACTATTCCACTTAATAAA  
ATAGAAGATTTTGGTGTTACACTGCAACAATATTATGCCTTAGAAGTCTCATATTTCAAATCCTCTTTGGATCGC  
AAATTGCTTGAGCTGTTGTGGAATAAATACTGGGTGAATACGTTGAGTTCTTCTAGCTTGCTTACTAATGCAGAC  
TATACCACTGGTCAGGTCTTTGATTTGTCTGAAAAGTTAGAGCAGTCAGAAGCCCAGCTGGGACGAGGGAGTTTC  
ATGTTGGGTTTAGAAACGCATGACCGAAAATCAGAAGACAAACTTGCCAAAGCTACAAGAGACAGCTGTAAACT  
ACCATAGAAGCTATCCATGGATTGATGTCTCAGGTTATTAAGGATAAACTGTTTAATCAAATTAACATCTCTTAA

ACAGTCTCTGAGAAGTACTTTACCTGAAAGACAGTATGAGAAAAATATTCAAGTAACACTTTAAAACAGTTACC  
CAAAATCTGATTAGAAGTATAAGGTGCTCTGAAGTGTCTAAATATTAATATCCTGTAATAAAGCTCTTTAAAT  
GA

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**FIGURE 2566**

MAASGSGMAQKTWELANNMQEAQSIDEIYKYDKKQQQEILAAANLGTKDHHYFKYCKISALALLKMVMHARSGGNL  
EVMGLMLGKVDGETMIIMDSFALPVEGTETRVNAQAAAYEYMAAYIENAKQVGRLENAIGWYHSHPGYGCWLSGI  
DVSTQMLNQQFQEPFVAVVIDPTRTISAGKVNLGAFRTYPKGYKPPDEGPSEYQTIPLNKIEDFGVHCKQYYALE  
VSYFKSSLDKLLLELLWNKYWVNTLSSSSLLTNADYTTGQVFDLSEKLEQSEAQLGRGSFMLGLETHDRKSEDKL  
AKATRDSCKTTIEAIGHGLMSQVIKDKLFNQINIS

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**FIGURE 2567**

GGCACGAGGGGGAGGCGGCGGCGAGTCGGTGAGCAGCTGGGAAGAGCAGAACCAGGGGCGGAGCACCTGCAGGCGC  
GGGCGGCGGCCCCACCATGGCGGATTTCGCAAGAAAAGCACCAAGAGCCCCCAGTGCTGAGCCACGAATTCGTCCT  
GCAGAATCACGCGGACATCGTCTCCTGTGTGGCGATGGTCTTCCTGCTGGGGCTCATGTTTGAGATAACGGCAAA  
AGCTTCTATCATTTTTTGTACTCTTCAGTACAATGTACCCCTCCAGCAACAGAAGAACAAGCTACTGAATCAGT  
GTCCCTTTATTACTATGGCATCAAAGATTTGGCTACTGTTTTCTTCTACATGCTAGTGGCGATAATTATTCATGC  
CGTAATTCAAGAGTATATGTTGGATAAAATTAACAGGCGAATGCACTTCTCCAAAACAAAACACAGCAAGTTTAA  
TGAATCTGGTCAGCTTAGTGCGTTCTACCTTTTTGCCTGTGTTTGGGGCACATTTCATTCTCATCTCTGAAAATA  
CATCTCAGACCCAATCTTATGGAGGGCTTATCCCCATAACCTGATGACATTTCAAATGAAGTTTTTCTACAT  
ATCACAGCTGGCTTACTGGCTTCATGCTTTTCTGAACTCTACTTCCAGAAAACCAAAAAAGAAGATATTCCTCG  
TCAGCTTGTCTACATTGGTCTTTACCTCTTCCACATTGCTGGAGCTTACCTTTTGAACCTGAATCATCTAGGACT  
TGTTCTTCTGGTGCTACATTATTTTGTGAATTTCTTTTCCACATTTCCCGCCTGTTTTATTTTAGCAATGAAAA  
GTATCAGAAAAGGATTTTCTCTGTGGGCAGTTCTTTTTGTTTTGGGAAGACTTCTGACTTTAATTCTTTCAGTACT  
GACTGTTGGTTTTTGGCCTTGCAAGAGCAGAAAATCAGAAGCTGGATTTTCACTACTGGAACTTCAATGTGTTAGC  
TGTTAGAATCGCTGTTCTGGCATCCATTTGCGTTACTCAGGCATTTATGATGTGGAAGTTCATTAATTTTCAGCT  
TCGAAGGTGGAGGGAACATTCTGCTTTTTCAGGCACCAGCTGTGAAGAAGAAACCAACAGTAACATAAGGCAGATC  
TTCTAAAAAAGGAACAGAAAATGGTGTGAATGGAACATTAACCTTCAAATGTAGCAGACTCTCCCGGAATAAAAA  
AGAGAAAATCTTCATAATGAATTATAAACTAATTGATTAATGTCCCCAAAGAAATCTGCTTTCTACTATATCTTTC  
AGCATTAGAGATTTTTTCTGTTCTTGAAAATACAGTCTGTGCTCTTTGATTTTTGCTATTGTACGGTTTCATGCAT  
TTTTTTAAAGGCATTTGAGGGGAGGATTATTGCTATGAATGAAAAAATATTTTAGCTTAGACTAAGCTACCTG  
CCTTCAAAATAGTTTtagggaccaccaccataTTTTTATTTTGTTTTTATTTTTGAACATTTTCTAATGATTTGGA  
GAGAAAATATTTTACAAAAATTCACATATCAGTGATAACAATTTCTTGCTGTCACCAATTTTTTATAATAGCAGA  
GTGGCCTGTTCTAAGAAGGCCATATTTTTTAAGTTATCTTTCAGGGTAACATGGAAATACTATAAAGTTGGATGT  
CAAACCTTAAATATGTTTTCAGTGTTCTCTAATTTTTTGAATTTTTGTAGACTTTACACCTGGAAAAAAGATTT  
GTAATAATCACCGGAACAATTGTGTGCTTTATTTTATAGGTAGTGGTTATTAGTATTACATCCCCATTTTAAAAAC  
AAAAACATAATAATGGTTACAACACGTGGAGTTTTACTAACATACATATTAAATCAAAGTATATTCTTAAAGTA  
CTTGTAAGTAAAAATCTTCTTGTCATTTTCAATACTTGTAACCTGGAAATCAGAAAATATTTACTATGAACAG  
GAAAATCTGACATATAGCCCTTTTGTATGTTTATTAATAATGATTCTTAATGGGGCTCATAATAAGTTTAATA  
TGCACAGCATCTTAGAAAAGTTTAACTGCAAAACACTTTTAAACATAATGCCTACTTGATTTATATCTATAAAA  
AGACTGACAGGTAATTATATTGGAAAACATTTAATGCACTAACTTTAAAGAAATTGAAAATTCAGGTGGATAAA  
TAGTCTTACAAAAGACAATGTGCTTTATGTTATACCTATAGCTTTGGTCCCATCTTTAATTGAGAAACATTTATC  
TGTATAAAACATATTTTTGGATAAATATATATATATATATTTGTATCGCTACAGAAAAGGCTCTAAAAAGCATTTG  
AGGAAAATATTTGGTTCCCTTTTCTATAATCATCCTTTAAGATTCTTATAGCTACATTTGGTTTATTCATCATAT  
TTACAGTATATATATTGTTCTTTTCAGTGTTTACATCTTGTTCCCCATTTCTCACTTGTTGTCACCAGCTGTTTGT  
GCCATTTTtagtgtaaaagttgcagacctattagatctgcagtttaagttgccatgctgctaggaattgtcctt  
TTTCTTTCTAGCTGTTAACCTACTTCTGGAAAAAGTAGTAGCTCTCTGTAGCATTATGGAGTTTCAGTGGAACC  
AAATTTTTGCCATTAAAAACTGGCATTATACTGAACATATATTGAGAAATCAATCAAAATAAAAAATTTTTACTT  
TCACAAAAA

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**FIGURE 2568**

MAIRKKSTKSPPVLSHEFVLQNHADIVSCVAMVFLGLMFEITAKASIIFVTLQYNVTLPATEEQATESVSLYYY  
GIKDLATVEFFYMLVAIIHAVIQEYMLDKINRRMHFSKTKHSKFNESGQLSAFYLFACVWGTFILISENYISDPT  
ILWRAYPHNLMTFQMKFFYISQLAYWLHAFPELYFQKTKKEDIPRQLVYIGLYLFHIAGAYLLNLNHLGLVLLVL  
HYFVEFLFHISRLFYFSNEKYQKGFSLWAVLFVLGRLLTLILSVLTVGFGLARAENQKLDFTGNFNVLA VRIAV  
LASICVTQAFMMWKFINFQLRRWREHSAFQAPAVKKKPTVTKGRSSKKGTENG VNGTLTSNVADSPRNKKEKSS

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**FIGURE 2569**

CCTCTTTTTCCGGCTGGAACCATGGAGGGTGTAGAAGAGAAGAAGAAGGAGGTTCTGTGTGCCAGAAACCCCTT  
AAGAAAAAGCGAAGGAATTTTCGCAGAGCTGAAGATCAAGCGCCTGAGAAAGAAGTTTGCCCAAAGATGCTTCGA  
AAGGCAAGGAGGAAGCTTATCTATGAAAAAGCAAAGCACTATCACAAAGGAATATAGGCAGATGTACAGAACTGAA  
ATTCGAATGGCGAGGATGGCAAGAAAAGCTGGCAACTTCTATGTACCTGCAGAACCCAAATTGGCGTTTGTTCATC  
AGAATCAGAGGTATCAATGGAGTGAGCCCAAAGGTTGAAAGGTGTTGCAGCTTCTTCGCCTTCGTCAAATCTTC  
AATGGAACCTTTGTGAAGCTCAACAAGGCTTCGATTAAACATGCTGAGGATTGTAGAGCCATATATTGCATGGGGG  
TACCCAATCTGAAGTCAGTAAATGAACTAATCTACAAGCGTGGTTATGGCAAAATCAATAAGAAGCGAATTGCT  
TTGACAGATAACGCTTTGATTGCTCGATCTCTTGGTAAATACGGCATCATCTGCATGGAGGATTTGATTCATGAG  
ATCTATACTGTTGGAAAACGCTTCAAAGAGGCAAATAAATTCTGTGGCCCTTCAAATTGTCTTCTCCACGAGGT  
GGAATGAAGAAAAAGACCACCCATTTTGTAGAAGGTGGAGATGCTGGCAACAGGGAGGACCAGATCAACAGGCTT  
ATTAGAAGAATGAACTAAGGTGTCTACCATGATTATTTTTCTAAGCTGGTTGGTTAATAAACAGTACCTGCTCTC  
AAATTGAAAAAAA



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**FIGURE 2570**

MEGVEEKKKEVPAVPETLKKKRRNFAELKIKRLRKKFAQMLRKARRKLIYEKAKHYHKEYRQMYRTEIRMARMA  
RKAGNFYVPAEPKLAFFVIRIRGINGVSPKVRKVLQLRLRQIFNGTFVKLNKASINMLRIVEPYIAWGYPNLKSV  
NELIYKRGYGKINKKRIALTDNALIARSLGKYGIICMEDLIHEIYTVGKRFKEANNFLWPFKLSSPRGGMKKKT  
HFVEGGDAGNREDQINRLIRRMN

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**FIGURE 2571**

CTCGCGCCAGCAGTTTTTTGGCTTTTACCCCCCATCAGTGACCAAAGACTTGACCACTCAAAGTCCAGCTCCCCAG  
AACACTGCTCGACATGGAAACCAGTGTGATTGAAGGTGGATTAAATATCACTCTCACCATCCGACTACTTATGCA  
TGGAAAGGAAGTTGGCAGTATCATCGGAAAGAAAGGAGAATCAGTTAAGAAGATGCGCGAGGAGAGTGGTGCACC  
TATCAACATCTCAGAAGGGAATTGTCCTGAGAGAATTATCACTTTTGCTGGACCTGCTAATGCCGTCTTCAAAGG  
CTTTGCTATGATCATTGACAACTGGAAGAGGACATAAGCAGCTCTATGACCAGTAGCACAGCTGCCAGTAGACC  
CCCAGTCACCCCTGAGGCTGGTGGTCCCTGCTAGTCAGTGTGGCTCTCTCATTGGAAAAGGTGGTTGCAAGATCAA  
GGAAATACGAGAGAGTACAGGGGCTCAGGTCTAGATGGCAGGGGATATGCTACCCAACCTCAACTGAGCAGGCCAT  
CACTATTGCTGGCATCCCACAATCCATCATTGAGTGTGTCAAACAGATCTGTGTGGTCA GTTGGAGTCCCCCCC  
GAAGGGCGTGACCATCCCGTACCAGCTCAAGCCTTCCAGCTCTCCGGTCATCTTTGCAGGCGGT CAGGCCTATAC  
CCTTCAAGGACAGTTTGCCATTCCACAGCCAGATTTGACCATGCTGCACCAGTTGGCAATGCAACAGTCTCATTT  
TCCCATGACGCATGGCAACACTGGATT CAGTGCAGGTTTGGATACATCTGCTCAGACTACTTCTCATGA ACTTAC  
CATTCCAAACGATTTGATTGGCTGCATAATCGGGCGTCAAGGCGCCAAAATAAATGAGATCCGTCAGATGTCTGG  
GGCACAGATCAAAATTGCGAAGCCAGTGGAAGGATCTACTGATAGGCAGGTTACCATCACTGGATCTGCTGCCAG  
CATTAGCCTGGCTCAATATCTAATCAATGTCAGGCTTTCTCGGAGACGGGTGGCATGGGGAGCAGCTAGAACAA  
TGCAGATTTATCCACAATCCCTTTCTGCTGTT CACCACCACCCATGATCCATCTGTGTAGTTTCTGAACAGTCAG  
CGATTT CAGGTTTTAAATAGTTTGTAATTTTCAGTTTCTACACACTTTATCATCCACTCGTGATTTTTTACTTA  
AAGTGTTTTAATTCCTTT

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**FIGURE 2572**

CCCGGCCGGCCGCCCATAGCCAGCCGTCCGTACCTCTTCACCGCCCCCTCAGACCGCCCCAAGGTCCCCCGCC  
GCCGCTCCAGCGCCGCCGCTGCAGCCGCTCTCTTTAGTCGCCGCCATGGCGACCCCGTCCACCTCGCAGGAGCG  
CCAGGACTACAACCAGGACTCAGAGGCCGCCATCAACCGCCACATCAACCTGGAGCTCTGCGCCTCCTACTTTTA  
CCTGTCCATGTCTTATACTTTGACCGCGATGATGTGGCTTTGAAGAACTTTGCCAAATACTTTCTTTACCAATCT  
CATGAGGAGAGGGGAACATGCTGAGAACTGATGAAGCTGCAGAACCAACGAGGTGGCCGAATCTTCCTTCAGGAT  
ATCAAGAAACCAGACTGTGATGACTGGGAGAGCGGGCTGAATGCGATGGAGTGTGCATTATATTTGGAAAAAAT  
GTGAATCAGTCACTACTGGAACGTACAAACTGGCCACTGACAAAAATGACCCCCATTTGTGTGACTTCATTGAG  
ACACATTACCTGAATGAGCAGGTGAAAGCCATCAAAGAATTGAGTGACCACGTGACCAACTTGCAGCAAGATGGGA  
GCGCCCGAATCTGGCTCGGCAGAAATATCTCTTCGACAAGCACACCCTGGGAGACAGTGATAATGAAAGCTAAGTC  
TCAGGCTAATTTCCCATAGCCGTGGGGTGCCTTCCTTGGTCACCAAGGCAGTGC GTGCACGTTAGGGTTTTCTT  
TACCTTTTCTATAAGTTGTACCAAAACATCCACTTAAGTTCTTTGATTGTACCATTCTTCAAATAAAGAAATT  
TGGTACCAAAATAATTAATAAATAAAAAATTAAAAAAA

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**FIGURE 2573**

MKLQNQRGGRIFLQDIKKPDCDDWESGLNAMECALYLEKNVNQSLLELYKLATDKNDPHLCDFIETHYLNEQVKA  
IKELSDHVTNLRKMGAPESGSAEYLFDKHTLGDSDNES

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**FIGURE 2574**

CCGCCGCTGCAGCCGCCTCTCTTTAGTCGCCGCCATGGCGACCCCGTCCACCTCGCAGGAGCGCCAGGACTACAA  
CCAGGACTCAGAGGCCGCCATCAACCGCCACATCAACCTGGAGCTCTGCGCCTCCTACTTTTACCTGTCCATGTC  
TTATACTTTGACCGCGATGATGTGGCTTTGAAGAACTTTGCCAAATACTTTCTTTACCAATCTCATGAGGAGAGG  
GAACATGCTGAGAACTGATGAAGCTGCAGAACCAACGAGGTGGCCGAATCTTCCTTCAGGATATCAAGAAACCA  
GACTGTGATGACTGGGAGAGCGGGCTGAATGCGATGGAGTGTGCATTATATTTGGAAAAAATGTGAATCAGTCA  
CTACTGGAAGTGTACAACTGGCCACTGACATGAAAGCCATCAAAGAATTGAGTGACCACGTGACCAACTTGCGC  
AAGATGGGAGCGCCCGAATCTGGCTCGGCAGAATATCTCTTCGACAAGCACACCCTGGGAGACAGTGATAATGAA  
AGCTAAGTCTCAGGCTAATTTCCCATAGCCGTGGGGTGCCTTCCTTGGTCACCAAGGCAGTGCCTGCACGTTAG  
GGTTTCCTTTACCTTTTCTATAAGTTGTACC

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**FIGURE 2575**

ACCGCCGACGCAGACCCCTCTCTGCACGCCAGCCCGCCCGCACCCACCATGGCCACAGTTCAGCAGCTGGAAGGA  
AGATGGCGCCTGGTGGACAGCAAAGGCTTTGATGAATACATGAAGGAGCTAGGAGTGGGAATAGCTTTGCGAAAA  
ATGGGCGCAATGGCCAAGCCAGATTGTATCATCACTTGTGATGGTAAAAACCTCACCATAAAAACTGAGAGCACT  
TTGAAAACAACACAGTTTTCTTGTACCCTGGGAGAGAAGTTTGAAGAAACCACAGCTGATGGCAGAAAACTCAG  
ACTGTCTGCAACTTTACAGATGGTGCATTGGTTCAGCATCAGGAGTGGGATGGGAAGGAAAGCACATAACAAGA  
AAATTGAAAGATGGGAAATTAGTGGTGGAGTGTGTCATGAACAATGTCACCTGTACTCGGATCTATGAAAAAGTA  
GAATTAAAAAATTCATCATCACTTTGGACAGGAGTTAATTAAGAGAATGACCAAGCTCAGTTCAATGAGCAAATCT  
CCATACTGTTTCTTTCTTTTTTTTTTTCATTACTGTGTTCAATTATCTTTATCATAAACATTTTACATGCAGCTAT  
TTCAAAGTGTGTTGGATTAATTAGGATCATCCCTTTGGTTAATAAATAAATGTGTTTGTGCT

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**FIGURE 2576**

MATVQQLLEGRWRLVDSKGFDEYMKELGVGIALRKMAMAKPDCIIITCDGKNLTIKTESTLKTTQFSCITLGEKFEE  
TTADGRKTQTVCNFTD GALVQH QEWDGKESTITRKLKDGKLVVECMNNVTCTRIYEKVE

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**FIGURE 2577**

GCTACCTACAGAGGGGTCCATACGGCGTTGTTCTGGATTCCCGTCGTAACCTAAAGGGAACTTTCACAATGTCC  
GGAGCCCTTGATGTCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACCCACTTAGGTGGC  
ACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGTATCTACATCATAAATCTGAAG  
AGGACCTGGGAGAAGCTTCTGCTGGCAGCTCGTGCCATTGTTGCCATTGAAAACCCCTGCTGATGTCAGTGTTATA  
TCATCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGCTGGCTGC  
TTCACCTCTGGAACCTTTCACTAACCAGATCCAGGCAGCCTTCCAGGAGCCACGACTTCTTGTTGTTACTGACCCC  
AGGGCTGACCACCAGCCTTTCACGGAGGCATCTTATGTTAACCTACCTACCATTGCTCTGTGTAACACAGATTCT  
CCTCTGCGCTATGTGCACATTGCCATCCCATGCAACAACAAGGGAGCTCACTCAGTGGGTTTGATGTGGTGGATG  
CTGGCTTGGGAAGTTCTGTGCATGCGTGGCACCATTTCCCGTGAACACCCGTGGGAGGTCATGCCTGATTTCTGC  
TTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGCCTGCTGCTGAAAAGGCTGTGACCAAGGAGGAATTT  
CAGGGTGAAAGGACTGCTCCAGCTCCTGAGTTCAGTCTACTCAGCCTGAGGTTGCAGACTGGTCTGAAGGTGTG  
CAGGTGCCCTCTGTGCCATTTCAGCAGTTCCCTACTGAAGACTGCAGCGCTCAGCCTGCCACGGAAGACTGGTCT  
GCAGCTCCCACTGCCCAGGCCACTGAATGGGTAGGAGCAACCACTGAATGGTCTTAAGCTGTTCTTGATAGGCT  
CTTAAGCAATATGGAAAAATGGTGGATGGAAAATAAACATCAGTTTCT



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**FIGURE 2578**

MSGALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLAARAIVAIENPADVS  
VISSRNTGQRAVLKFAAATGATPIAGCFTPGTFTNQIQAAFQEPRLLVVTDPRADHQPFTTEASYVNLPTIALCNT  
DSPLRYVHIAIPCNNKGAHSVGLMWWMLAWEVLCMRGTISREHPWEVMPDFCFYRDPEEIEKEEQPAAEKAVTKE  
EFGERTAPAPEFTATQPEVADWSEGVQVPSVPIQQFPTEDCSAQPATEDWSAAPTQAQATEWVGATTEWS

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**FIGURE 2579**

TGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAACCAAAGAGAGCCGTCTCAAGAG  
AAGATTCTCAAAGACCAGGTGCCCACTTAACTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAG  
AACATCACCTAAGAGATTATTTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGAGTGACCGAGGCAGTG  
GCAAGAAAAGGGGCTTTGCCTTTGTAACTTTGACGACCATGACTCCGTGGATAAGATTGTCATTTCAGAAATACC  
ATACTGTGAATGGCCACAACCTGTGAAGTTACAAAAGCCCTGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCC  
AAAGAGGTCGAAGTGGTTCTGGAACTTTGGTGGTGGTCGTGGAGGTGGTTTCAGTGGGAACGACAACCTTTGGTC  
ATGGAGGAACTTCAGTGGTCATGGTGGCTTTGGTGGCAGCCATGGTGGTGGTGGATATGGTGGCAATGGGGATG  
GCTATAATGGATTTGGTAATGATGGAAGCAATTTTGGAGGTGGTGGAGCTACAAGGATTTTGGCAATTACAACA  
ATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAATTTTGGAGGCAGAAGCTCTGGCCCCCATGGTGGTGGAG  
GCCAGTACTTTGCAAAACCACGAAACCAAGGTGGCTATGGCGGTTCCAGCAGCAGCAGTAGCTATGGCAGTGGCA  
GAAGATTTTAAATTAGGAAACAAAGCTCAGCAGGAGAGGAGAGCCAGAGAAGTAACAGGGAAGCTACAGGTTACAA  
CAGATTTGTGAACCTCAGCCAAGCACAGTGGTGGCAGGGCCTAGCTGCTACAAAGAAGACATGTTTTAGACAAATA  
CTCATGTGTATGGGCAAAAAACTCGAGGACTGTATTTGTGACTAATTGTATAACAGGTTATTTTAGTTTTCTGTTC  
TGTGGAAAGTGTAAGCATTCCAACAAAGGGTTTTAATGTAGATTTTTTTTTTGCACCCATGCTGTTGATTGCTAA  
ATGTAATAGTCTGATCGTGACACTGAATAAATGTCTTTTTTTTTTAATGTGCTGTGTAAAGTTAGTCTACTCTGAA  
GCCATCTTGGTAAATTTCCCCAACAGTGTGAAGTTAGAATTCCTTCAGGGTGATGCCAGGTTCTATTTGGAATTT  
ATATACAACCTGCTTGGGTGAAGAAGCCATTGTCTTCGGAAACCTTGGTGTAGTTGAACTGATAGTTACTGTTGT  
GACCTGAAGTTCACCATTAAAAGGGATTATCCAAGCAAAATCATGGAATTATTGGTTATAAAAGTGATTGTTGGT  
ACATCCTATGCAATATACTAAATTGAATAATGGTACCAGATAAAATTTATAGATGGGAATGAAGCTTGTGTATCA  
TCCATTATCGTATGTAATCAATAAACGATTTAATTCTCTTGAA